DOCUMENT RESUME

ED 192 636 HE 013 029

AUTHOR Syverson, Peter D.
TITLE Doctorate Recipients from United States Universities. Summary Report 1979.
INSTITUTION National Academy of Sciences - National Research Council, Washington, D.C. Commission on Human Resources.
SPONS AGENCY National Endowment for the Humanities (NFAH), Washington, D.C.; National Institutes of Health (DHEW), Bethesda, Md.; Office of Education (DHEW), Washington, D.C.
PUB DATE Mar 80
NOTE 46p.; Not available in paper copy due to marginal legibility of original document.
AVAILABLE FROM National Academy of Sciences, National Research Council, Commission on Human Resources, Washington, DC 20418

EDRS PRICE MF01 Plus Postage. PC Not Available from EDRS.
DESCRIPTORS *Doctoral Degrees; *Employment Patterns; Ethnic Groups; Females; Graduate Surveys; Higher Education; *Majors (Students); Males; Minority Groups; National Surveys; *Student Characteristics; Trend Analysis

ABSTRACT

A summary of data gathered from the National Research Council's Survey of Earned Doctorates during the academic year 1978-79 is presented. The data were obtained from questionnaire forms filled out by graduates as they completed requirements for their doctoral degrees. Between July 1, 1978 and June 30, 1979 a total of 31,200 research doctorates were awarded by U.S. universities. This is an increase of 1.1 percent from doctorates awarded in 1978. Information is presented on the distribution of doctorate recipients by broad field and sex from 1969-79, trends in the employment and study plans of doctorate recipients, trends in postdoctoral study abroad plans, and employment plans by racial/ethnic group and field of doctorate. Statistical tables provide the following information: number of doctorate recipients by sex and subfield, number of doctorate recipients by citizenship, racial/ethnic group, and subfield; profile of doctorate recipients by sex and field of doctorate; percentage of doctorate recipients by sources of support in graduate school, by sex, and summary field; and profile of doctorate recipients by racial/ethnic group and U.S. citizenship status. A list of titles of degrees included in the study and a sample form are included. (SW)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED192636

HE

Summary Report 1979

DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES

U S DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

NRC

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

HE 013 027

HIGHLIGHTS

- The total number of doctorates awarded was 31,200, an increase of 328, or 1.1%, from the 30,872 doctorates awarded in 1978. This growth constitutes the first upturn since the peak year of 1973.

- The proportion of women doctorates reached an all-time high of 28.6% in 1979, continuing a trend that began in 1965. The current number of 8,921 is now five times greater than the 1965 total.

- From 1978 to 1979, there was an increase in the number of doctorates awarded to men in the physical sciences, engineering, and the life sciences, the first growth in these fields in eight years. Overall, the number of men doctorates decreased 1.2%, the smallest decrease since 1973.

- Of the five racial/ethnic groups shown in Table 5, black doctorate recipients have the highest proportion of women doctorates, with 37.9%, followed by whites (26.9%), American Indians (28.5%), Hispanics (24.4%), and Asians (17.0%).

- Between 1969 and 1979, the proportion of doctorate recipients still seeking employment or further study at time of doctorate increased from 17.4% to 25.6% in the social sciences, from 13.5% to 37.5% in the humanities, and from 19.9% to 26.2% in education.

- Foreign language and literature was the discipline with the largest proportion of 1979 doctorate recipients still seeking employment or study. It was also the field with the greatest increase from 1969 to 1979 in proportion of graduates seeking a position at time of doctorate.

- From 1978 to 1979, there was an increase of 41, or 21.0%, in the number of doctorates planning postdoctoral study abroad following a steady decline since the peak year of 1971.

- Over the last decade, the field with the largest number of doctorate recipients planning postdoctoral study abroad was the biological sciences. During the same period, Canada, Western Europe, and Northern Europe were the areas most frequently selected for postdoctoral study.

- Of all the racial/ethnic groups, Hispanics have the greatest proportion of doctorate recipients with a definite commitment for academic employment. Asians and whites are highest among the groups planning employment in business and industry. Black doctorate recipients plan employment in government in greater proportions than the other racial/ethnic groups.

Summary Report 1979 DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES

The Survey of Earned Doctorates is
conducted by the
National Research Council for the
National Science Foundation,
the U.S. Office of Education,
the National Institutes of Health, and
the National Endowment for the Humanities

Peter D. Syverson
Staff Associate

Commission on Human Resources
NATIONAL RESEARCH COUNCIL

NATIONAL ACADEMY OF SCIENCES
March 1980

4

SEP 2 9 1980

FOREWORD

This report presents a brief summary of data gathered from the Survey of Earned Doctorates during the academic year 1978-79. The survey is conducted annually by the Commission on Human Resources (CHR) of the National Research Council. Questionnaire forms, distributed with the cooperation of the Graduate Deans, are filled out by the graduates as they complete all requirements for their doctoral degrees. The data in this report refer to doctorates earned during the period July 1, 1978 to June 30, 1979 (FY 1979), but they do not include professional degrees such as the M.D., D.D.S., D.M.D., O.D., D.O., D.V.M., or J.D. They do, however, include both research and applied research doctorates with degrees such as the D.Sc.V.M., S.J.D., D.L.S., Th.D., and Ed.D. A full list of titles of degrees included is shown on the inside back cover.

This is the thirteenth in a series of yearly summaries of data from the Survey of Earned Doctorates, a report series that began in 1967. The CHR publishes data gathered during a given fiscal year in the following fiscal year. Trend data from earlier periods can be found in the book *A Century of Doctorates* (National Academy of Sciences, 1978).

The distribution of the Survey of Earned Doctorates questionnaire, the maintenance of the resulting data file, and the publication of this report are supported jointly by the National Science Foundation, the United States Office of Education, the National Institutes of Health, and the National Endowment for the Humanities. The CHR thanks these agencies for their assistance. Dr. Charles Dickens of the Science Resources Studies Division of the National Science Foundation is the project officer for the agencies; his interest and assistance are appreciated.

The Survey of Earned Doctorates is currently under the administrative supervision of William C. Kelly. The draft report was prepared by the undersigned, who, along with Muriel Quinones, had continuing responsibility for the development of the tabular and graphic presentation. In addition to Dr. Dickens of the National Science Foundation, Donald Bigelow of the U.S. Office of Education, William Copeland of the National Institutes of Health, and Stanley Turesky of the National Endowment for the Humanities have provided constructive advice in the design and analysis of the survey, a contribution that increases its relevance to national policy issues. Lloyd Elam, a member of the Commission on Human Resources, provided valuable assistance in review of the report. Special appreciation also goes to Doris Rogowski who supervised the coding and editing of the data, to Joseph Finan and George Boyce who were responsible for the computer programming and processing, and to Merle Morgan for her meticulous care in typing the report.

The CHR is concerned with those activities of the National Research Council that contribute to the more effective development and utilization of the nation's human resources. Its programs seek to strengthen higher education and to develop better understanding of the educational process. It is hoped that prompt reporting of the present data to educational, governmental, and professional agencies will facilitate planning in higher education. Suggestions for improvement of the content or format of the report and questions or comments will be welcomed. Such communications may be directed to the Commission on Human Resources, National Research Council, 2101 Constitution Avenue, Washington, D.C. 20418

Peter D. Syverson
Staff Associate

NOTICE: This report is based on research conducted by the National Research Council with the support of the National Science Foundation, the U.S. Office of Education, the National Institutes of Health, and the National Endowment for the Humanities under NSF Contract No. SRS-7917001. Any opinions, findings, and conclusions or recommendations expressed in this publication are those of the author and do not necessarily reflect the views of the sponsoring agencies.

INTRODUCTION

Between July 1, 1978 and June 30, 1979 a total of 31,200 research doctorates were awarded by U.S. universities (Text Table A). This number constitutes an increase of 328 or 1.1% from the 30,872 doctorates awarded in 1978.

TEXT TABLE A
Doctorates Awarded by U.S. Universities, 1965-1979

Year	Doctorates	Year	Doctorates
1965	16,341	1973	33,756
1966	17,949	1974	33,048
1967	20,406	1975	32,953
1968	22,938	1976	32,945
1969	25,746	1977	31,718
1970	29,500	1978	30,872
1971	31,872	1979	31,200
1972	33,044		

Figure 1, which displays data from Text Table A on the trend in doctorates granted by U.S. universities, shows a period of large annual increases in the number of doctorates from 1965 to the peak year of 1973, followed by gradual decreases to 1978. The 1.1% increase in doctorate recipients from 1978 to 1979 is the first increase in six years. Despite the increase, the 1979 total is 7.6% less than the 33,756 doctorates awarded in 1973.

Selected statistics from the 1979 Survey of Earned Doctorates and from past surveys are highlighted in this report. Because of continued concern with postgraduation opportunities for doctorate recipients, this report focuses on three aspects of their plans at the time the degree was awarded: first, postgraduation employment and study plans by field; second, the numbers planning postdoctoral study in foreign countries; and third, the planned employment sector by racial/ethnic group and field of doctorate.

The Summary Report for 1978 followed a related theme, highlighting trends in the postgraduation plans of doctorate recipients from departments rated as distinguished in the Roose-Andersen study.[1/] Trend data on the number of doctorate recipients by sex, by field of doctorate, by Carnegie category of doctorate-granting institution, and by Roose-Andersen rating of graduate department were highlighted in the 1977 Summary Report.

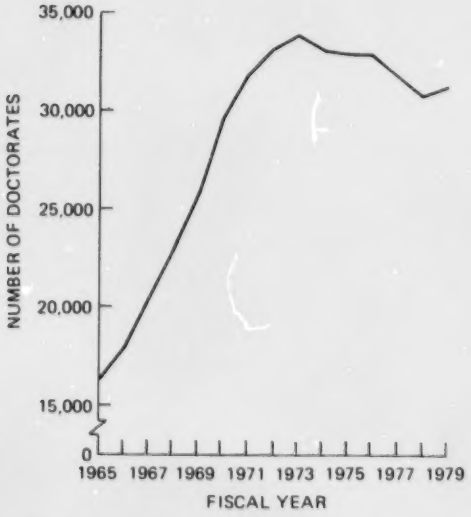


FIGURE 1
Doctorates Awarded by U.S. Universities, 1965-1979

TRENDS IN THE NUMBER OF DOCTORATES BY FIELD FOR MEN AND WOMEN

Text Table B and Figure 2 show the distribution of doctorate recipients by broad field and sex for the period 1969 to 1979. The proportion of doctorates granted to women increased from 26.9% of the total in 1978 to 28.6% in 1979, continuing a trend that began in 1965 when 10.5% of the doctorate recipients were women.

From 1969 to 1979, the total number of doctorates awarded to women increased from 3,390 to 8,921, or 163%. The fields showing the greatest increase during this period were education and the social sciences. In fact, about two-thirds of the 1969 to 1979 increase in women doctorates can be attributed to these fields. With the exception of the humanities, which has experienced a steady decline in Ph.D. production from its peak year of 1975, all broad fields show increased numbers of women from 1978 to 1979. While the largest increase since 1978 in number of women doctorate recipients was in education, engineering and the physical sciences showed the largest proportional growth, with 18.9 and 13.0 percent increases respectively.

For men, three broad fields - physical sciences, engineering, and life sciences - increased from 1978 to 1979, the first upturn in eight years. Overall, the number of men awarded doctorates decreased 1.2% from 1978 to 1979, the smallest decrease since 1973.

1/ Roose, Kenneth D. and Charles J. Andersen, A Rating of Graduate Programs, American Council on Education, Washington, D.C., 1970.

Although, as for women, the social sciences and education are the fields with the largest number of men doctorates, their share of the total men doctorates is 38.4% as compared with 58.3% for women.

PLANNED EMPLOYMENT SECTOR FOR 1979 DOCTORATE RECIPIENTS

Figure 3 displays data from Text Table C on trends in the employment and study plans of doctorate recipients at the time they completed the survey questionnaire. This is the first of three presentations on postgraduation plans of doctorate recipients to be included in this report.[2/]

Of the sixteen fields shown, foreign language and literature was the discipline with the largest proportion of 1979 doctorate recipients still seeking employment or further study (41.5%) and it was also the discipline with the greatest increase from 1969 to 1979 in proportion of graduates without firm commitments at time of doctorate. Biochemistry, where 14.8% of the 1979 cohort did not have firm commitments, was the field that had the smallest proportion still "seeking".

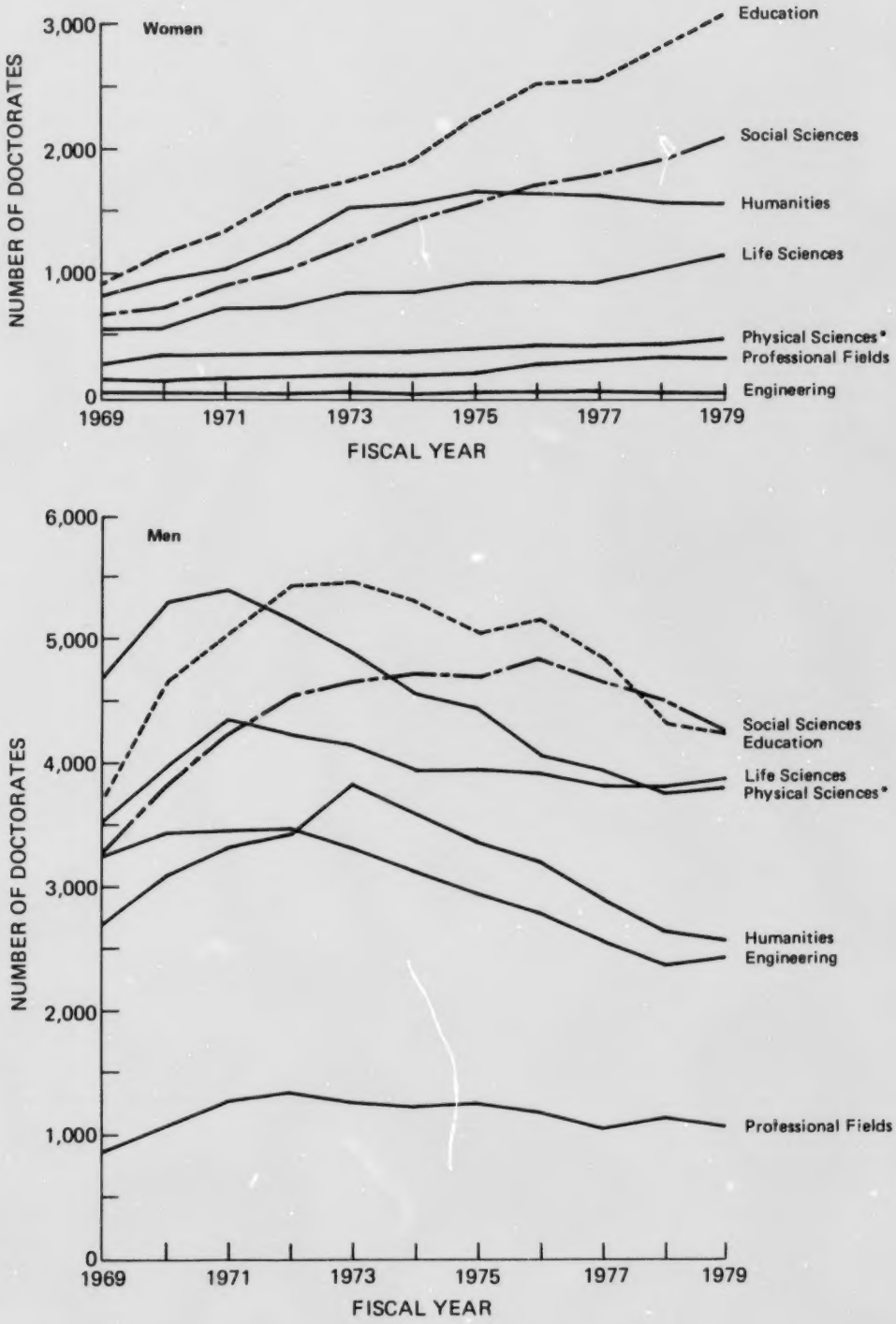
Even within broad field groupings, there is considerable variability in the four categories of postgraduation plans. In the physical sciences (mathematics, physics and astronomy, chemistry, and earth sciences), physics and chemistry share a similar pattern of decreases from 1969 to 1978 in the number of Ph.D.'s who have definite employment plans followed by an increase in 1979. In physics, the proportion still seeking employment is lower in 1979 than in 1969, and the number going on to further study now exceeds the number who have definite employment plans. For mathematics, the decrease in total doctorates has continued from the peak year of 1972 through 1979. The proportion of mathematics Ph.D.'s with definite employment plans decreased from 70.4% in 1969 to 59.9% in 1979 while the proportion still seeking employment rose from 17.7% to 20.6%. In contrast with the other physical science fields, the number of doctorate recipients in the earth sciences has increased 28.4% from 1969 to 1979

TEXT TABLE B
Number of Doctorates Awarded by United States Universities by Broad Field and Sex, 1969-1979

Year	Total	Physical Sciences[3/]	Engineering	Life Sciences	Social Sciences	Humanities	Prof. Fields	Education
				MEN				
1969	22,357	4,722	3,241	3,559	3,303	2,728	889	3,746
1970	25,529	5,307	3,418	3,989	3,827	3,095	1,072	4,671
1971	27,277	5,398	3,485	4,357	4,255	3,313	1,262	5,085
1972	27,757	5,169	3,481	4,214	4,553	3,434	1,335	5,437
1973	27,671	4,927	3,316	4,136	4,688	3,815	1,258	5,455
1974	26,594	4,589	3,114	3,965	4,725	3,593	1,226	5,301
1975	25,752	4,454	2,950	3,956	4,710	3,360	1,243	5,063
1976	25,261	4,089	2,779	3,920	4,856	3,208	1,189	5,185
1977	23,858	3,948	2,568	3,813	4,689	2,904	1,041	4,869
1978	22,554	3,753	2,370	3,809	4,513	2,636	1,126	4,339
1979	22,279	3,802	2,431	3,886	4,274	2,549	1,051	4,270
				WOMEN				
1969	3,390	262	10	568	662	838	126	904
1970	3,971	320	15	588	737	972	143	1,186
1971	4,596	341	15	715	919	1,063	176	1,346
1972	5,287	367	22	731	1,050	1,272	183	1,646
1973	6,085	381	46	868	1,245	1,546	201	1,782
1974	6,454	384	33	867	1,446	1,576	194	1,939
1975	7,201	403	52	950	1,600	1,686	208	2,295
1976	7,685	420	54	959	1,734	1,673	290	2,541
1977	7,860	430	74	957	1,837	1,661	308	2,584
1978	8,318	439	53	1,083	1,955	1,597	330	2,854
1979	8,921	496	63	1,190	2,105	1,594	363	3,100

[2/] The postdoctoral study groups in Text Table C include all persons who responded "0", "1", "2", or "3" in questionnaire item T (see page 41). Those individuals who also responded "0" in item S (have signed contract or made definite commitment) are tabulated as "definite study". The "seeking study" group includes all other responses to item S. Doctorate recipients who responded "4", "5", or "6" to item T are classified as planning employment. The "definite" and "seeking" employment groups are separated by using the same criteria as for doctorates planning study. All persons who did not respond to item T are classified as "unknown".

[3/] Includes mathematics and computer sciences.



*Includes mathematics and computer sciences.

FIGURE 2
Number of Doctorates Awarded by U.S. Universities by Broad Field and Sex, 1969-1979

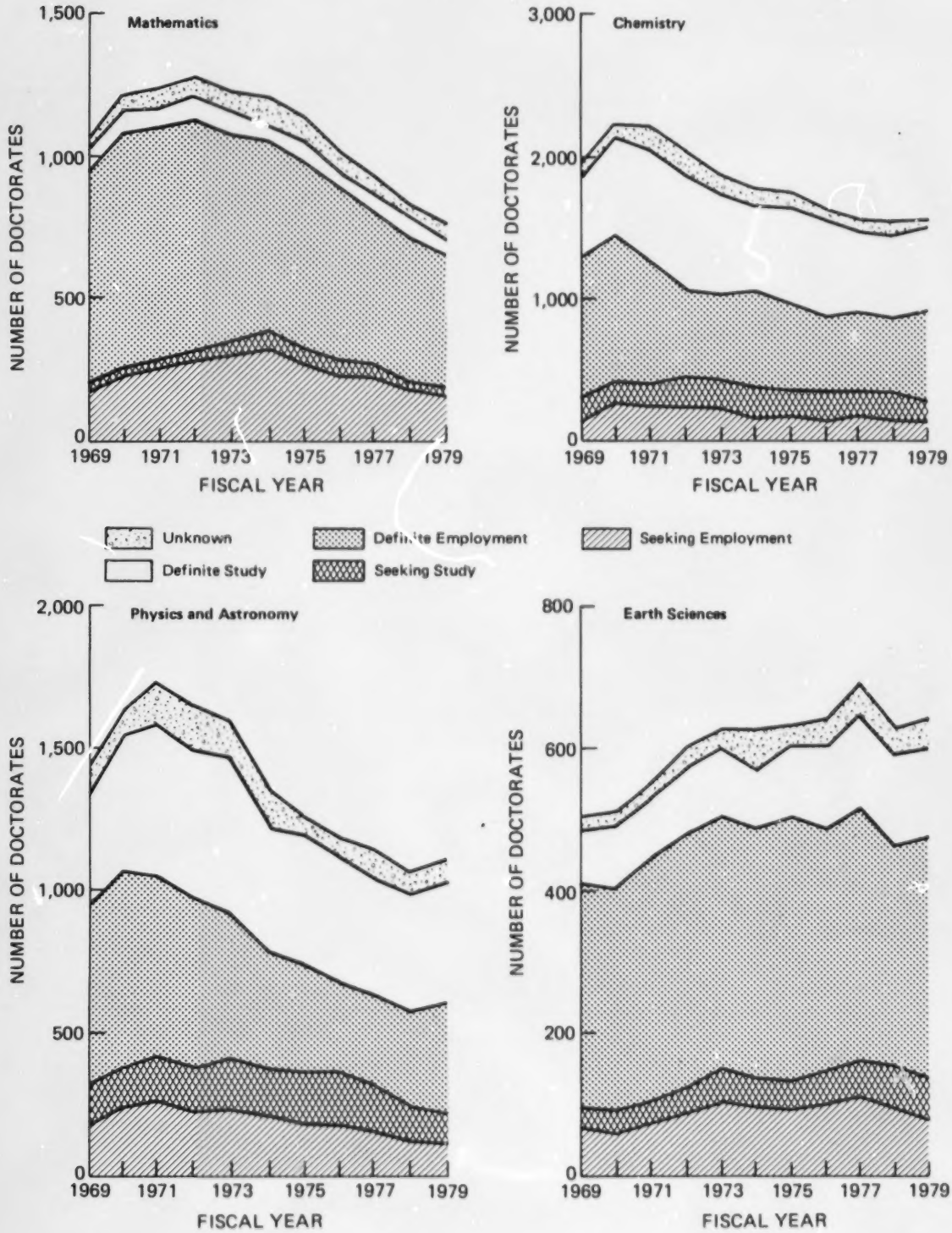


FIGURE 3
Cumulative Postgraduation Employment and Study Plans of Doctorate Recipients in Selected Fields, 1969-1979

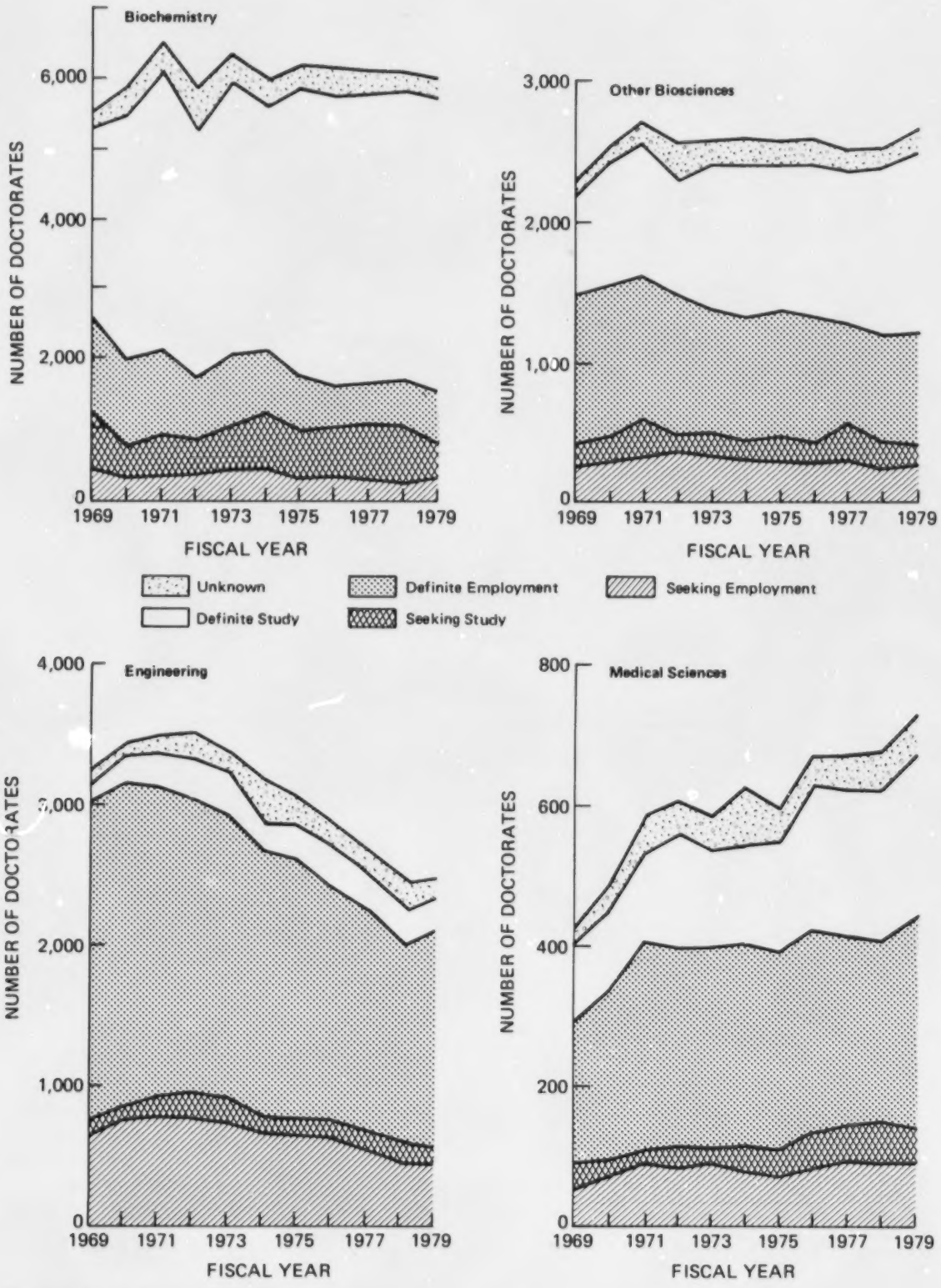


FIGURE 3 continued

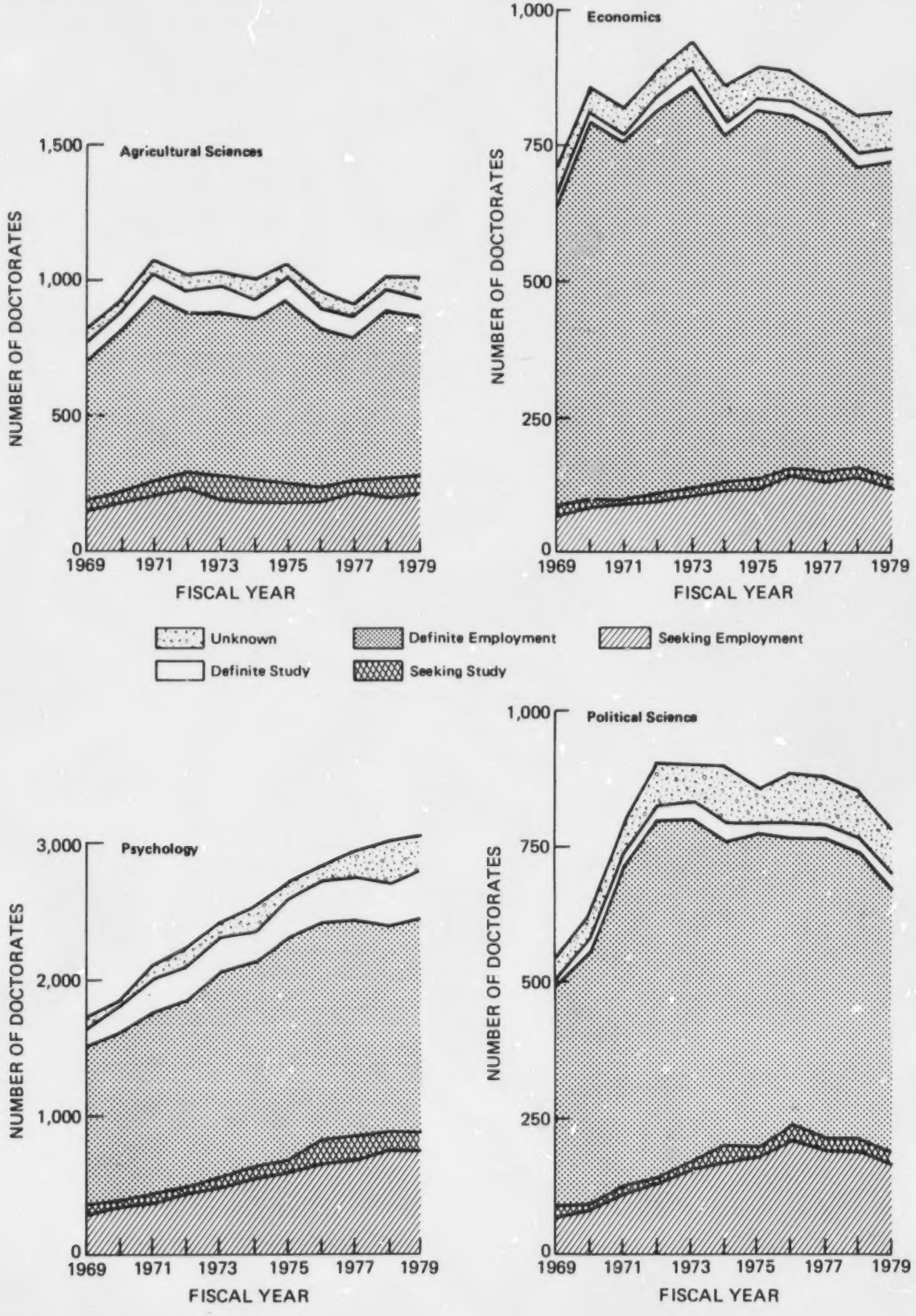


FIGURE 3 continued

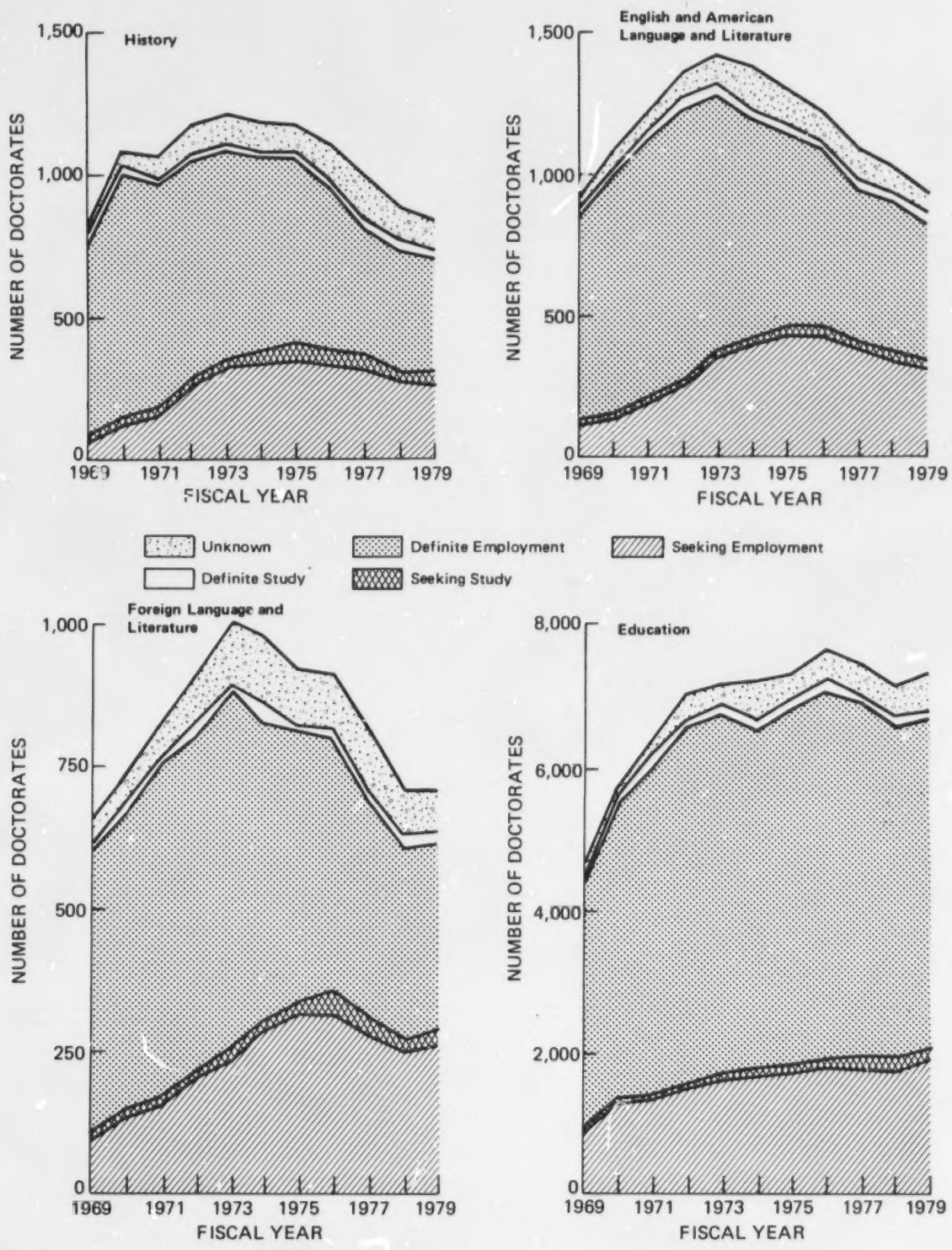


FIGURE 3 continued

TEXT TABLE C

Postgraduation Employment and Study Plans of Doctorate Recipients by Field, 1969-1979

Postgraduation Plans	1969 N	1969 %	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979 N	1979 %
Mathematics													
Total	1,065	100.1	1,224	1,238	1,281	1,232	1,209	1,147	1,003	933	838	768	100.1
Seeking Employment	188	17.7	227	251	274	304	336	274	238	232	184	158	20.6
Seeking Study	23	2.2	25	27	43	33	52	39	44	42	27	35	4.6
Definite Employment	750	70.4	842	828	812	733	667	669	605	527	500	460	59.9
Definite Study	70	6.6	72	63	83	83	57	79	60	64	75	55	7.2
Unknown	34	3.2	58	69	69	79	97	86	56	68	52	60	7.8
Physics & Astronomy													
Total	1,454	100.0	1,655	1,737	1,634	1,588	1,333	1,300	1,237	1,149	1,066	1,108	100.0
Seeking Employment	191	13.1	242	269	225	227	202	190	187	158	130	128	11.6
Seeking Study	125	8.6	135	152	147	180	169	163	165	147	117	98	8.8
Definite Employment	642	44.2	693	637	582	517	407	389	331	336	336	378	34.1
Definite Study	410	28.2	487	522	532	535	435	450	434	390	409	420	37.9
Unknown	86	5.9	98	157	148	129	125	103	120	118	74	84	7.6
Chemistry													
Total	1,962	100.0	2,238	2,212	2,017	1,855	1,797	1,776	1,624	1,571	1,544	1,567	99.9
Seeking Employment	187	9.5	269	259	247	223	183	195	163	176	159	148	9.4
Seeking Study	125	6.4	135	146	205	214	212	169	182	171	161	126	8.0
Definite Employment	1,020	52.0	1,070	872	619	603	651	632	544	570	575	666	42.5
Definite Study	562	28.6	692	807	818	698	616	660	659	567	556	561	35.8
Unknown	68	3.5	72	128	128	117	135	120	76	87	93	66	4.2
Earth Sciences													
Total	503	100.0	510	552	604	633	629	634	645	694	623	646	100.1
Seeking Employment	66	13.1	60	79	90	104	98	93	101	113	93	76	11.8
Seeking Study	23	4.6	27	27	33	50	38	41	47	49	59	55	8.5
Definite Employment	322	64.0	316	346	359	349	351	370	339	358	311	346	53.6
Definite Study	72	14.3	88	84	91	98	84	101	122	131	129	127	19.7
Unknown	20	4.0	19	16	31	32	58	29	36	43	31	42	6.5
Engineering													
Total	3,251	100.0	3,433	3,500	3,503	3,362	3,147	3,002	2,833	2,642	2,423	2,494	100.1
Seeking Employment	663	20.4	752	772	759	727	634	630	625	517	436	429	17.2
Seeking Study	79	2.4	98	154	181	177	159	161	149	151	140	116	4.7
Definite Employment	2,266	69.7	2,310	2,190	2,073	2,017	1,850	1,807	1,610	1,569	1,424	1,586	63.6
Definite Study	153	4.7	180	234	300	298	211	230	289	243	255	221	8.9
Unknown	90	2.8	93	150	190	143	293	174	160	162	168	142	5.7
Biochemistry													
Total	553	100.0	583	657	585	635	599	620	617	609	607	600	100.0
Seeking Employment	44	8.0	36	37	39	43	43	28	37	28	24	32	5.3
Seeking Study	76	13.7	42	61	51	64	80	72	69	81	82	57	9.5
Definite Employment	140	25.3	122	118	87	104	90	77	57	61	65	67	11.2
Definite Study	273	49.4	367	396	357	382	348	413	415	410	410	415	69.2
Unknown	20	3.6	16	45	51	42	38	30	39	29	26	29	4.8
Other Biosciences													
Total	2,337	100.1	2,587	2,751	2,731	2,753	2,601	2,627	2,636	2,561	2,589	2,717	100.0
Seeking Employment	308	13.2	315	392	406	392	355	345	328	345	296	311	11.4
Seeking Study	172	7.4	194	226	227	266	258	284	264	292	300	279	10.3
Definite Employment	1,054	45.1	1,097	1,069	994	1,023	913	788	790	686	643	665	24.5
Definite Study	713	30.5	879	903	930	919	839	1,039	1,073	1,078	1,176	1,277	47.0
Unknown	90	3.9	102	161	174	153	236	171	181	160	174	185	6.8
Medical Sciences													
Total	425	100.0	489	592	614	585	630	592	676	676	683	751	100.0
Seeking Employment	54	12.7	67	83	81	87	78	71	82	94	90	90	12.0
Seeking Study	32	7.5	20	26	36	28	38	32	56	54	51	48	6.4
Definite Employment	213	50.1	250	295	272	280	287	284	285	265	269	303	40.3
Definite Study	107	25.2	118	135	171	142	142	163	209	210	213	258	34.4
Unknown	19	4.5	34	53	54	48	85	42	44	53	60	52	6.9

TEXT TABLE C. CONTINUED

Postgraduation Employment and Study Plans of Doctorate Recipients by Field, 1969-1979

Postgraduation Plans	1969 N	1969 %	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979 N	1979 %
Agricultural Sciences													
Total	812	100.0	918	1,072	1,015	1,031	1,002	1,067	950	924	1,013	1,008	100.0
Seeking Employment	152	18.7	166	203	233	198	188	192	195	210	201	218	21.6
Seeking Study	37	4.6	46	53	58	68	63	57	48	46	63	54	5.4
Definite Employment	529	65.1	596	691	594	618	601	663	565	540	624	595	59.0
Definite Study	68	8.4	80	89	77	105	84	98	87	77	80	78	7.7
Unknown	26	3.2	30	36	53	42	66	57	55	51	45	63	6.3
Psychology													
Total	1,756	100.0	1,888	2,130	2,277	2,457	2,597	2,751	2,883	2,990	3,058	3,081	100.1
Seeking Employment	299	17.0	353	368	441	494	543	599	677	698	756	741	24.1
Seeking Study	66	3.8	36	56	55	74	89	100	137	150	134	135	4.4
Definite Employment	1,149	65.4	1,220	1,373	1,399	1,521	1,507	1,621	1,624	1,593	1,524	1,614	52.4
Definite Study	177	10.1	207	243	223	229	242	283	310	317	371	344	11.2
Unknown	65	3.7	72	90	159	139	216	148	135	232	273	247	8.0
Economics													
Total	706	99.9	853	821	895	941	853	895	885	838	801	802	99.9
Seeking Employment	73	10.3	85	90	94	110	120	120	147	136	141	118	14.7
Seeking Study	5	.7	8	7	17	8	11	14	10	14	11	16	2.0
Definite Employment	567	80.3	700	660	712	740	635	685	648	622	558	585	72.9
Definite Study	13	1.8	18	16	26	33	21	16	21	19	23	25	3.1
Unknown	48	6.8	42	48	46	50	66	60	59	47	68	58	7.2
Political Science													
Total	558	100.0	636	821	911	908	908	862	887	878	851	766	100.0
Seeking Employment	75	13.4	84	119	127	154	174	184	218	191	189	163	21.3
Seeking Study	8	1.4	10	12	16	20	31	14	24	20	24	17	2.2
Definite Employment	423	75.8	464	504	666	632	553	578	524	552	528	480	62.7
Definite Study	16	2.9	23	21	24	31	31	15	33	27	16	26	3.4
Unknown	36	6.5	55	65	78	71	119	71	88	88	94	80	10.4
History													
Total	829	100.1	1,091	1,064	1,186	1,215	1,186	1,183	1,095	961	853	829	100.0
Seeking Employment	85	10.3	141	175	276	323	345	391	341	324	267	267	32.2
Seeking Study	5	.6	7	11	19	36	41	35	36	36	19	36	4.3
Definite Employment	662	79.9	859	786	763	735	656	614	569	442	453	408	49.2
Definite Study	19	2.3	23	23	20	33	24	34	21	34	29	32	3.9
Unknown	58	7.0	61	69	108	88	120	109	128	125	85	86	10.4
English and American Language & Literature													
Total	935	99.9	1,098	1,244	1,365	1,413	1,369	1,290	1,214	1,079	1,026	911	99.9
Seeking Employment	134	14.3	145	208	276	365	412	438	431	369	344	309	33.9
Seeking Study	3	.3	7	8	11	22	19	26	22	19	24	12	1.3
Definite Employment	729	78.0	864	931	958	900	762	694	627	556	535	486	53.3
Definite Study	5	.5	11	14	22	27	21	14	20	18	18	17	1.9
Unknown	64	6.8	71	83	98	99	155	118	114	117	105	87	9.5
Foreign Language & Literature													
Total	665	100.1	733	828	918	1,002	975	919	914	788	704	704	100.0
Seeking Employment	95	14.3	129	152	203	230	292	331	324	265	240	268	38.1
Seeking Study	5	.8	9	8	9	30	21	17	33	31	28	24	3.4
Definite Employment	504	75.8	533	593	598	621	544	467	451	387	338	318	45.2
Definite Study	15	2.3	19	16	26	34	20	19	12	15	19	24	3.4
Unknown	46	6.9	43	59	82	87	98	85	94	90	79	70	9.9
Education													
Total	4,650	100.0	5,857	6,431	7,083	7,237	7,240	7,358	7,726	7,453	7,193	7,370	100.1
Seeking Employment	897	19.3	1,296	1,331	1,521	1,618	1,637	1,720	1,813	1,798	1,787	1,908	25.9
Seeking Study	27	.6	25	52	68	72	85	81	83	124	107	123	1.7
Definite Employment	3,480	74.8	4,263	4,766	5,065	5,114	4,865	5,131	5,288	4,964	4,701	4,724	64.1
Definite Study	40	.9	81	79	75	102	112	94	111	124	110	129	1.8
Unknown	206	4.4	192	203	354	331	541	332	431	443	488	486	6.6

and the number with plans for postdoctoral study has nearly doubled during the same period.

Engineering has experienced a growth pattern similar to that for the physical sciences, with a peak in the early 1970's followed by a decline through 1978 and a small increase from 1978 to 1979. While the proportion of doctorate recipients without definite commitments has remained fairly stable during this period, there has been an increase from 7.1% to 13.6% for those planning postdoctoral study and an increase from 58.8% in 1978 to 63.6% in 1979 in the proportion with definite employment plans.

The life science fields (biochemistry, other biosciences, medical sciences, and agricultural sciences) have not shown the overall decline in numbers experienced by the physical sciences and engineering. In biochemistry, other biosciences, and medical sciences, there has been a significant shift in postgraduation plans from employment to study. The proportion of doctorate recipients in these three fields planning study increased from 40.8% in 1969 to 57.4% in 1979, while the proportion planning employment decreased from 54.7% to 31.1%. Biochemistry has the largest proportion of doctorates planning postdoctoral study among the fields shown in Figure 3. The agricultural sciences have a decidedly different pattern of postgraduation plans, with a small but stable number of doctorates planning postdoctoral study and about the same proportion planning employment over the 1969 to 1979 period.

The three social science fields - psychology, economics, and political science - have shown similar trends with gradually increasing proportions of doctorates seeking employment and stable proportions planning postdoctoral study. Psychology has experienced the greatest growth in number of doctorate recipients with an increase of 75.5% from 1969 to 1979. It has been the social science field with the largest proportion of individuals "still seeking" at time of Ph.D. Of all the sciences, these three fields have the smallest proportion of 1979 doctorates planning postdoctoral study, 12.1% as compared with 36.1% in the physical sciences and 48.6% in the life sciences.

The largest increase from 1969 to 1979 in proportion of doctorate recipients still seeking employment or study has been in the humanities fields (history, English and American language and literature, foreign language and literature). The proportion of doctorates "still seeking" increased an average of 38.8% over the eleven-year period. While all three fields have shown large decreases in the proportion of doctorates with firm commitments for employment, foreign language and literature has posted decreases in the proportion with definite employment plans each year since 1969. From its peak in 1973, the number of doctorate recipients in foreign language and literature with definite employment commitments has dropped by nearly one-half.

The field of education has shown a pattern similar to the social sciences, with an overall increase in the number of doctorate recipients from 1969 to 1979 and a very limited number of graduates planning postdoctoral study. While the number of education doctorates has increased 58.5% from 1969 to 1979, the number "still seeking" at the time the questionnaire was completed has more than doubled.

TRENDS IN POSTDOCTORAL STUDY ABROAD BY DOCTORATE RECIPIENTS FROM U.S. UNIVERSITIES

An important component of the international exchange of knowledge is the movement of new doctorate recipients to foreign countries for postdoctoral study. Text Table D and Figure 4 show the field of doctorate and country of planned postdoctoral study for doctorate recipients who are U.S. citizens or non-U.S. citizens with permanent visas.

In both number and percent of total doctorates, the peak year for doctorate recipients to have plans for postdoctoral study abroad was 1971, when 430, or 1.5% of all doctorates had firm commitments for study in a foreign country. By 1978, the number had declined by more than one-half to 195 and the percentage of all doctorates had decreased to 0.9. From 1978 to 1979, there was an increase of 41, or 21.0%, in the number of doctorates planning foreign study.

By field, physics, chemistry, and the biological sciences have had the largest number of doctorates planning foreign study. As shown in Text Table D, biosciences was the leading field in both number and percent of doctorates in 1979. The increase of 29 bioscience doctorates from 1978 to 1979 accounted for 70.7% of the total 1978-1979 increase.

The postdoctoral appointment abroad is a much more typical activity for doctorates in the physical

Text Table D
Doctorate Recipients[1] with Firm Commitment for Postdoctoral Study Abroad, by Field, 1969-1979

Field of Ph.D.	Fiscal Year 1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Total
Mathematics	3	12	8	15	15	5	11	6	5	2	7	89
	.3%[2]	1.1%	.7%	1.4%	1.5%	.5%	1.2%	.7%	.7%	.3%	1.2%	
Physics & Astr.	53	62	96	66	45	42	29	31	29	23	25	501
	4.2	4.3	6.4	4.7	3.4	4.0	2.8	3.1	3.2	2.7	2.9	
Chemistry	56	70	115	93	37	52	46	48	30	30	28	605
	3.2	3.4	5.7	5.1	2.3	3.4	3.0	3.4	2.2	2.2	2.1	
Earth Sciences	12	12	16	5	10	4	5	6	16	13	10	109
	2.9	2.8	3.2	.9	1.8	.8	.9	1.1	2.8	2.4	1.8	
Engineering	25	22	46	34	17	12	21	17	14	13	18	239
	.9	.7	1.6	1.2	.6	.5	1.0	.9	.8	.8	1.1	
Biological Sci.	88	89	99	98	82	76	89	81	65	69	98	934
	3.5	3.2	3.3	3.3	2.7	2.8	3.1	2.8	2.3	2.4	3.3	
Agricultural Sci.	5	6	6	10	7	5	5	4	4	2	7	61
	.9	.9	.8	1.4	.9	.8	.7	.6	.7	.3	1.1	
Medical Sciences	4	7	6	12	6	4	7	11	9	10	10	86
	1.1	1.8	1.2	2.3	1.2	.8	1.4	1.9	1.5	1.7	1.6	
Social Sciences	15	18	17	14	13	13	19	21	16	15	17	178
	.4	.4	.4	.3	.2	.2	.3	.4	.3	.3	.3	
Humanities	7	16	16	14	18	7	16	10	13	13	8	138
	.2	.4	.4	.3	.4	.1	.3	.2	.3	.3	.2	
All Other Fields[3]	3	11	5	7	5	8	2	3	2	5	6	56
	.1	.2	.1	.1	.1	.1	-	-	-	.1	.1	
Total	271	325	430	368	255	228	250	238	203	195	236	2,999
	1.2	1.2	1.5	1.2	.9	.8	.9	.8	.7	.9	.9	

[1] U.S. citizens and foreign citizens with permanent visas.
[2] Number with firm commitment as percent of total Ph.D.'s in field.
[3] Includes education, professional fields, and other and unknown.

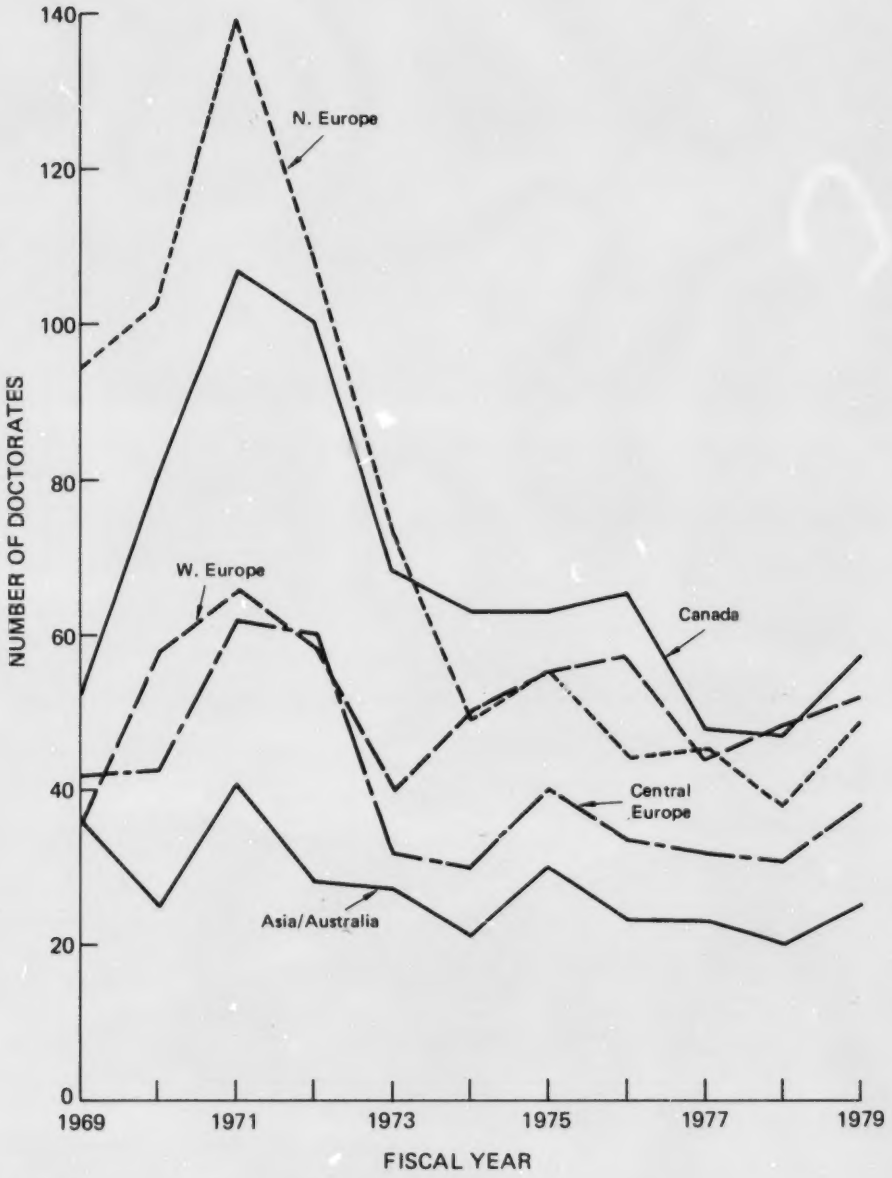


FIGURE 4
Geographic Area of Planned Postdoctoral Study Abroad, 1969-1979

and life sciences than for those in the social sciences, humanities, and education. While only 29.4% of the total population of 1979 Ph.D.'s were in the physical and life sciences, these fields contributed 78.4% of the doctorate recipients planning study abroad.

The decline in number of doctorates with foreign plans following the 1971 peak was shared by all geographic areas shown in Figure 4, with Northern Europe and Canada experiencing the greatest decreases. The 1978 to 1979 increase occurred with considerable uniformity across the geographic areas. Since 1974, Canada has been the most common postdoctoral study location, closely followed by Northern and Western Europe. Over the past ten years, the countries most frequently selected in each area have been England with 68.3% of the postdoctorals in Northern Europe; Switzerland with 42.1% of those in Western Europe; West Germany with 89.2% in Central Europe; and Israel and Australia with 38.5% and 28.4% respectively in Asia/Australia.

PLANNED EMPLOYMENT SECTOR FOR 1979 DOCTORATE RECIPIENTS

Figure 5 and Text Table E present data on the employment sector of 1979 doctorate recipients by racial/ethnic group and field of doctorate. Only those individuals who had definite commitments for employment, that is, those who checked responses "0" in item S and "4", "5", or "6" in item T (see questionnaire on p. 41), are included in this analysis. Because of the small number reporting as American Indian, data for this minority group for the three-year period 1977 to 1979 have been combined for this presentation. For this reason, the bar chart for American Indians has been taken out of the normal alphabetic sequence and shown last.

Figure 5 shows academe as the largest area of planned postdoctoral employment for all racial/ethnic groups and for all fields except the physical sciences and engineering. For the latter fields, the majority of doctorate recipients plan employment in business and industry. Doctorates in the humanities find employment in the academic sector in greater proportions than in any other field. Employment in government is chosen by significant numbers of doctorates in all fields, particularly in psychology and social sciences. Doctorate recipients in psychology planning employment in the area of clinical and counseling services are included in the business and industry category.

Of all the racial/ethnic groups, the Hispanics have the greatest proportion of doctorates with definite commitments for academic employment. Asians and whites are highest among the groups planning employment in business and industry and somewhat lower than average in the proportion planning employment in the academic or government sector. Black doctorate recipients, particularly those in the physical sciences, engineering, biological sciences, and education, plan employment in government in greater proportions than the other racial/ethnic groups. The proportion of black doctorates planning employment in academe and business and industry is very near the average for the five groups. American Indians have employment plans most evenly distributed across sectors, with slightly higher concentrations in academe for doctorates in the biological and social sciences.

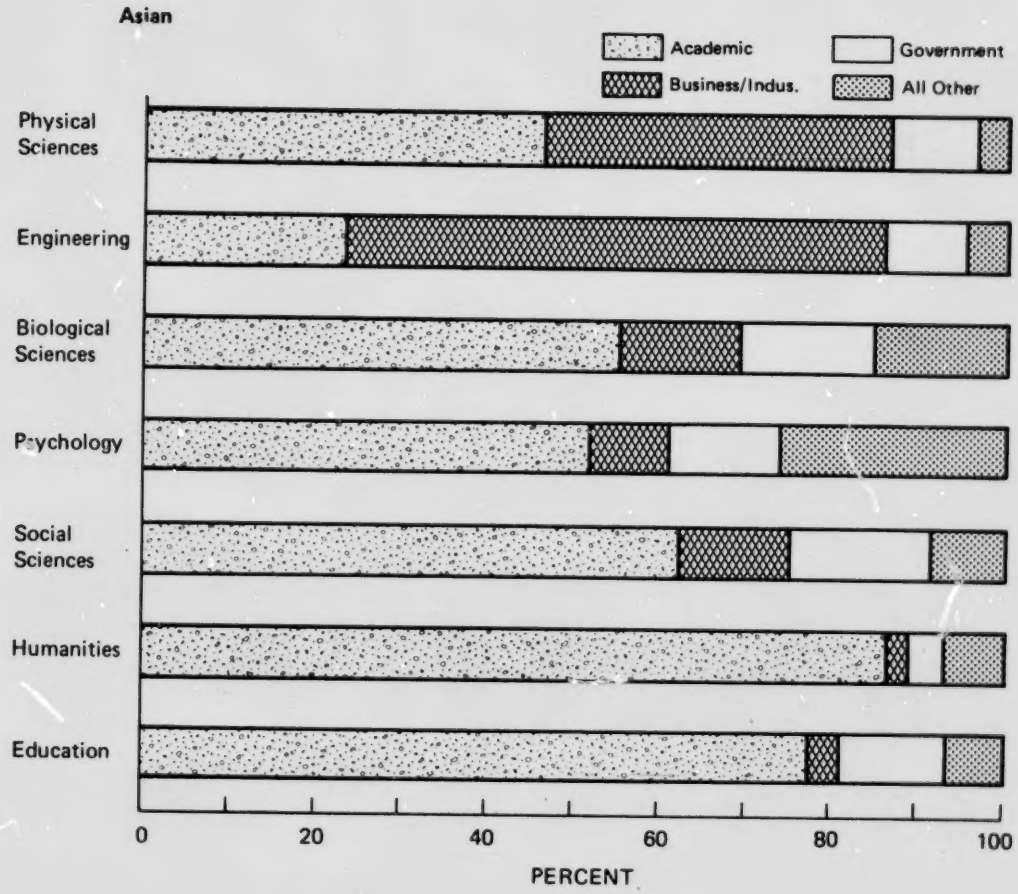


FIGURE 5
Planned Employment Sector of FY 1979 Doctorate Recipients by Racial/Ethnic Group and Field

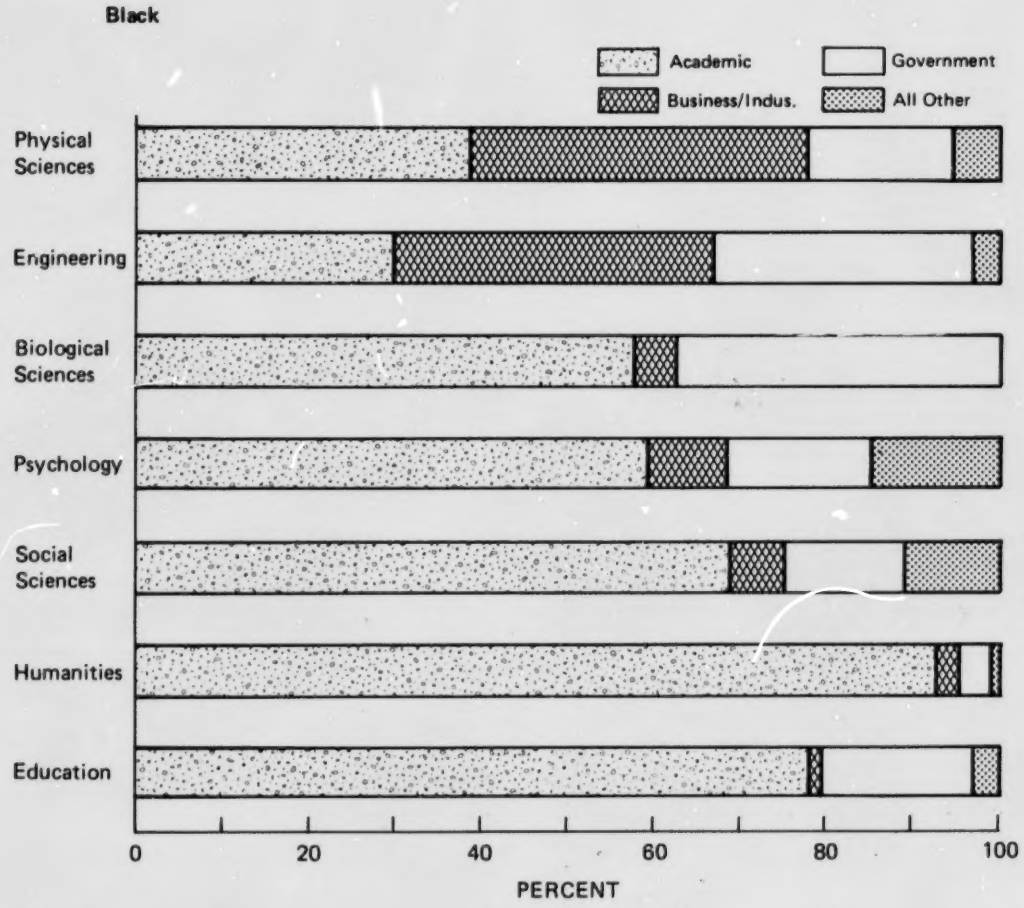


FIGURE 5 continued

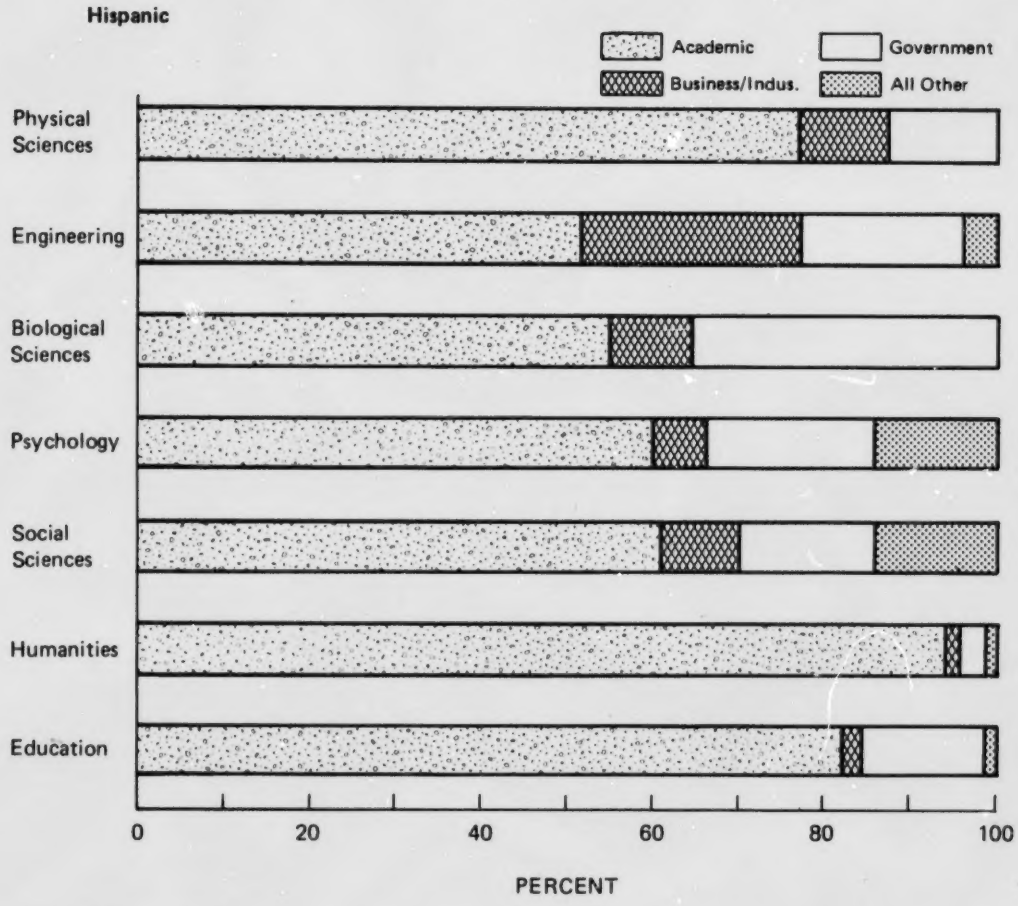


FIGURE 5 continued

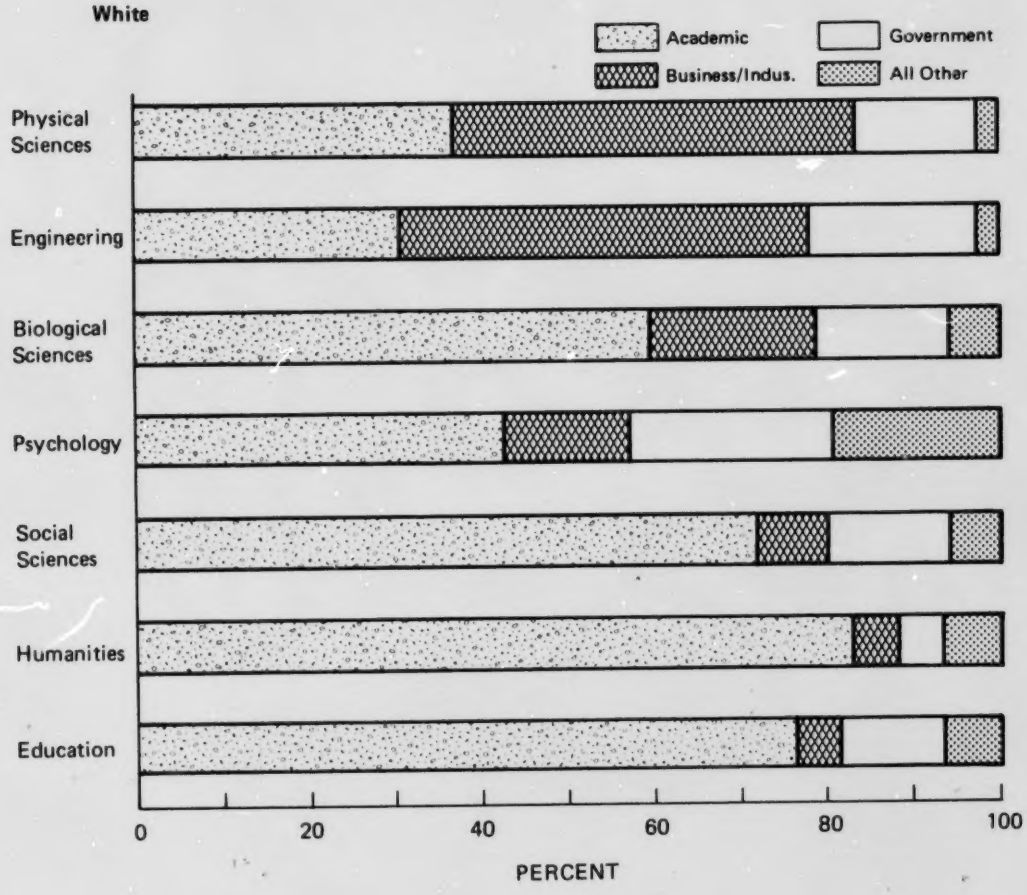


FIGURE 5 continued

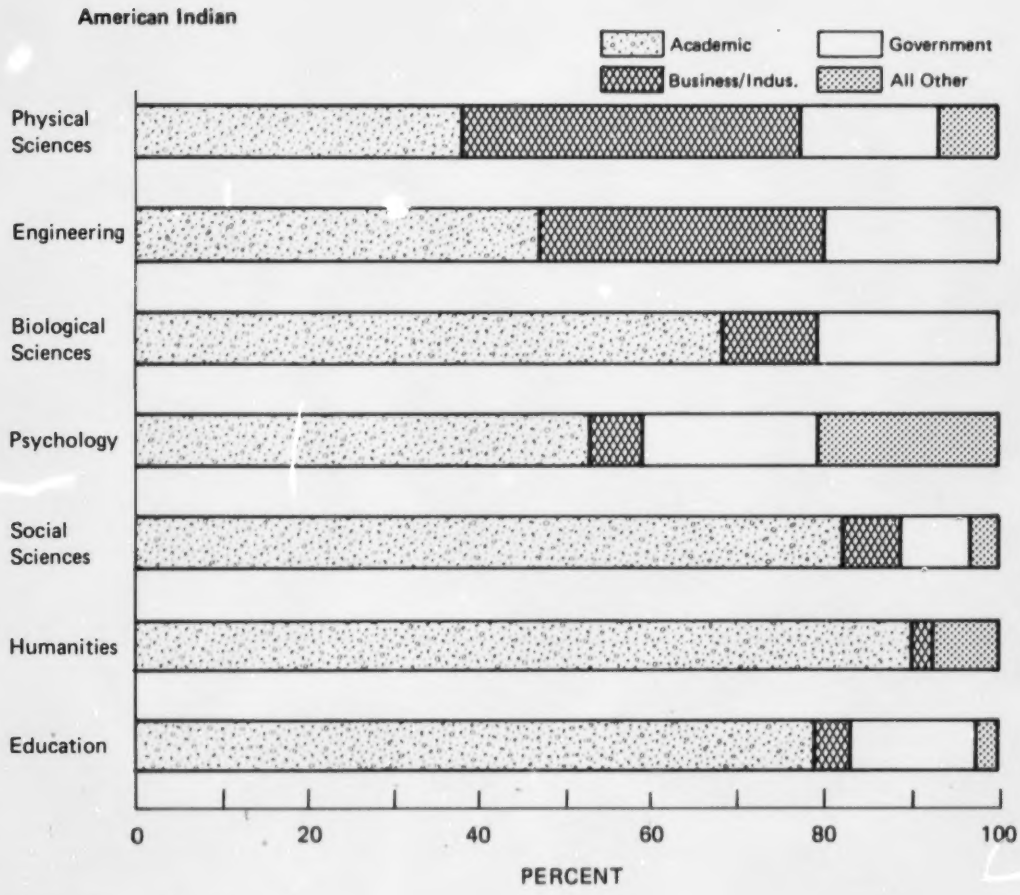


FIGURE 5 continued

TEXT TABLE E

Planned Employment Sector of FY 1979 Doctorate Recipients by Racial/Ethnic Group and Field

Field of Doctorate	Employment Sector: Academic	Business/ Industry	Govern- ment	Other/ Unkn.	Total
	Asian				
Physical Sci.	92 46.5% 1/	79 39.9%	20 10.1%	7 3.5%	198
Engineering	96 23.5	255 62.5	40 9.8	17 4.2	408
Biological Sci.	29 55.8	7 13.5	8 15.4	8 15.4	52
Psychology	12 52.2	2 8.7	3 13.0	6 26.1	23
Social Sci.	101 62.3	20 12.3	27 16.7	14 8.6	162
Humanities	48 87.3	1 1.8	2 3.6	4 7.3	55
Education	81 77.9	3 2.9	13 12.5	7 6.8	104
	Black				
Physical Sci.	16 39.0	16 39.0	7 17.1	2 4.9	41
Engineering	9 30.0	11 36.7	9 30.0	1 3.3	30
Biological Sci.	14 58.3	1 4.2	9 37.5	-	24
Psychology	37 59.7	6 9.7	10 16.1	9 14.5	62
Social Sci.	71 68.9	6 5.8	15 14.6	11 10.7	103
Humanities	82 93.2	2 2.3	3 3.4	1 1.1	88
Education	280 78.0	6 1.7	57 15.9	16 4.4	359
	Hispanic				
Physical Sci.	36 76.6	5 10.6	6 12.8	-	47
Engineering	27 51.9	13 25.0	10 19.2	2 3.8	52
Biological Sci.	17 54.8	3 9.7	11 35.5	-	31
Psychology	21 60.0	2 5.7	7 20.0	5 14.3	35
Social Sci.	38 60.3	6 9.5	10 15.9	9 14.3	63
Humanities	66 94.3	1 1.4	2 2.9	1 1.4	70
Education	105 82.0	3 2.3	18 14.1	2 1.6	128

Field of Doctorate	Employment Sector: Academic	Business/ Industry	Govern- ment	Other/ Unkn.	Total
	White				
Physical Sci.	591 37.0%	738 46.2%	225 14.1%	42 2.7%	1,596
Engineering	306 30.5	474 47.2	195 19.4	29 2.9	1,004
Biological Sci.	355 59.6	111 18.6	94 15.8	36 6.0	596
Psychology	604 42.4	205 14.4	339 23.8	275 19.3	1,423
Social Sci.	1,206 71.7	139 8.3	233 13.8	105 6.3	1,683
Humanities	1,495 82.9	90 5.0	91 5.0	127 7.1	1,803
Education	2,974 76.5	182 4.7	468 12.0	264 6.8	3,888
	American Indian (1977-1979) 2/				
Physical Sci.	12 38.7	12 38.7	5 16.1	2 6.5	31
Engineering	9 45.0	7 35.0	4 20.0	-	20
Biological Sci.	13 68.4	2 10.5	4 21.1	-	19
Psychology	18 52.9	2 5.9	7 20.6	7 20.6	34
Social Sci.	28 82.4	2 5.9	3 8.8	1 3.0	34
Humanities	38 90.0	1 2.4	-	3 7.3	42
Education	102 79.1	5 3.9	19 14.7	3 2.3	129

1/ Percent of total in field.

2/ Because of the small number of doctorate recipients reporting American Indian racial/ethnic group, the three-year period 1977-1979 has been combined in this presentation.

EXPLANATION OF FIVE BASIC TABLES

Table 1 - Number of Doctorate Recipients by Sex and Subfield, FY 1979

Table 1A - Number of Doctorate Recipients by Citizenship, Racial/Ethnic Group and Subfield, FY 1979

Table 2 - Statistical Profile of Doctorate Recipients by Sex and by Field of Doctorate, FY 1979 (three tables)

Table 3 - Percentage of FY 1979 Doctorate Recipients by Sources of Support in Graduate School, by Sex and Summary Field

Table 4 - Number of FY 1979 Doctorate Recipients by Sex, State of Doctoral Institution, and Summary Field

Table 5 - Statistical Profile of Doctorate Recipients by Racial or Ethnic Group and U.S. Citizenship Status, FY 1979

Table titles and headings are generally self-explanatory, but a few terms need special definition or explanation. The survey questionnaire is reproduced on pages 40-41.

Tables 1 and 1A:

Tables 1 and 1A display data by fine field of doctorate, corresponding to the fields specified in the Specialties List on page 42. The "general" field categories, e.g., "chemistry, general", contain individuals who either received the doctorate in the general subject area or who did not specify a particular fine field. The "other" field categories, e.g., "chemistry, other", include those individuals whose specific doctoral discipline was not listed in the Specialties List.

Table 2:

There are three 2-page tables; one contains data about all doctorate recipients in FY 1979 and the other two present data by sex. This table provides data by field and also by broader summary field. Refer to inside back cover for the codes included in each broad field and the Specialties List on page 42 for the codes and the names of each subfield.

"Median Age at Doctorate" --One-half received the doctorate at this age or younger.

"Percentage with Master's" --This indicates the percentage of doctorate recipients in a field who received a master's degree in any field before taking the doctorate.

"Median Time Lapse" --"Total Time" refers to total calendar time elapsed between year of baccalaureate and year of doctorate; "Registered Time" refers to the total time registered in a university between baccalaureate and doctorate.

Postgraduation plans of the doctorate recipients are grouped as: "Postdoctoral Study Plans" (fellowship, research associateship, traineeship, other), "Planned Employment" (educational institution, industry, etc.), or "Postdoctoral Status Unknown." The sum of these columns of percentages totals 100% with allowance for rounding. For example, 3.6% of all the engineers plan to go to postdoctoral fellowships, 8.4% to research associateships, 0.8% to traineeships, 0.7% plan on some form of postdoctoral study support; 80.8% plan on employment and 5.7% did not indicate their postgraduation plans. The percentages listed by type of employer (educational institution, industry, etc.) total to the 80.8% planning on employment.

The four lines of data beginning with "Definite Postdoctoral Study," first included in the 1974 report, distinguish between individuals who have definite postgraduation plans (item S: "Have signed contract or made definite commitment" in the survey questionnaire) and those who are still seeking employment or postdoctoral study (item S: negotiating, seeking, or other). These four lines when added to the prior line "Status Unknown" total 100%. The two lines "Definite Postdoctoral Study" and "Seeking Postdoctoral Study" add to give the total percentage planning postdoctoral study listed in the table as "Postdoctoral Study Plans" and the two lines "Definite Employment" and "Seeking Employment" add to give the total percentage planning employment listed in the table as "Planned Employment After Doctorate."

Percentages showing the distribution of doctorate recipients by work activity and by region of employment are based on those who have a definite employment commitment. They exclude those still seeking employment and those planning postdoctoral study as described in the categories above. These data differ from Summary Reports prior to 1974 which included

all individuals planning on employment, i.e., those seeking as well as those having definite employment.

Table 3:

Data in Table 3 describe sources of financial support during graduate school. The question was answered by 29,494 (94.5%) of the FY 1979 doctorate recipients. The data in the table should be interpreted as follows: 225 male doctorate recipients in the physical sciences reported financial support from NSF fellowships during graduate school. This number is 6.2% of the male physical sciences doctorates who answered the question, and it is 39.7% of the males in all fields who reported NSF fellowship support. Since students indicate multiple sources of support, the vertical percentages sum to more than 100%.

Changes in the survey questionnaire item on source of support have reduced the comparability of the 1977 to 1979 data with data presented in earlier Summary Reports. An explanation of the effects of these changes on Table 3 is detailed on page 13 of the 1977 Summary Report.

Table 4:

Table 4 shows the number of persons receiving a doctorate from universities in each of the 50 states, the District of Columbia, and Puerto Rico.

Table 5:

The 1973 Summary Report was the first to include data for racial and ethnic groups. The tables in that report stimulated many requests for more detailed data by individual racial or ethnic group. Such data are provided in Table 5, first included in the 1974 Summary Report. Table 5 contains data by racial or ethnic group and by U.S. citizenship status for selected variables from Tables 2 and 3. Comparisons between the 1973 data and data for 1974 to 1976 are somewhat tenuous because of the large number of cases (8,592) for which racial or ethnic data were unavailable in 1973.

Changes in the survey questionnaire item on racial or ethnic group have reduced the comparability of the 1977 to 1979 data with that presented in earlier Summary Reports. An explanation of the effects of these changes in Table 5 is detailed on page 13 of the 1977 Summary Report.

TABLE 1
NUMBER OF DOCTORATE RECIPIENTS BY SEX AND SUBFIELD, FY 1979

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL
TOTAL ALL FIELDS	**22279**	**8921**	**31200**
PHYSICAL SCIENCES	**3802**	**496**	**4298**
MATHEMATICS	650	118	768
ALGEBRA	63	24	87
ANALYSIS AND FUNCTIONAL ANALYSIS	97	14	111
GEOMETRY	20	5	25
LOGIC	20	1	21
NUMBER THEORY	16	1	17
PROBABILITY, MATH STATISTICS	134	31	165
TOPOLOGY	51	9	60
COMPUTING THEORY AND PRACTICE	21	4	25
OPERATIONS RESEARCH	39	4	43
APPLIED	99	12	111
MATHEMATICS, GENERAL	69	12	81
MATHEMATICS, OTHER	21	1	22
COMPUTER SCIENCES	182	27	209
PHYSICS AND ASTRONOMY	1035	73	1108
ASTRONOMY	52	6	58
ASTROPHYSICS	55	2	57
ATOMIC AND MOLECULAR	66	6	72
ELECTROMAGNETISM	6		6
ACOUSTICS	12	1	13
FLUIDS	13	1	14
PLASMA	60	2	62
OPTICS	45	1	46
THERMAL	7		7
ELEMENTARY PARTICLES	112	7	119
NUCLEAR STRUCTURE	99	4	103
SOLID STATE	226	17	243
PHYSICS, GENERAL	179	17	196
PHYSICS, OTHER	103	9	112
CHEMISTRY	1347	220	1567
ANALYTICAL	180	27	207
INORGANIC	160	35	195
ORGANIC	414	54	468
NUCLEAR	13	1	14
PHYSICAL	273	53	326
THEORETICAL	47	3	50
AGRICULTURAL AND FOOD	9	2	11
PHARMACEUTICAL	37	6	43
POLYMER	62	5	67
CHEMISTRY, GENERAL	103	25	128
CHEMISTRY, OTHER	49	9	58
EARTH, ENVIRONMENTAL AND MARINE SCI	588	58	646
MINERALOGY, PETROLOGY	30	3	33
GEOCHEMISTRY	47	10	57
STRATIGRAPHY, SEDIMENTATION	31	3	34
PALEONTOLOGY	27	9	36
STRUCTURAL GEOLOGY	26	2	28
GEOPHYSICS (SOLID EARTH)	76	5	81
GEOMORPHOL, GLACIAL GEOLOGY	12	2	14
HYDROLOGY AND WATER RESOURCES	20		20
OCEANOGRAPHY	82	9	91
MARINE SCIENCES, OTHER	30	1	31
ATMOSPHERIC PHYSICS AND CHEMISTRY	15	1	16
ATMOSPHERIC DYNAMICS	25	1	26
ATMOSPHERIC SCIENCES, OTHER	41	1	42
ENVIRONMENTAL SCIENCES, GENERAL	20	2	22
ENVIRONMENTAL SCIENCES, OTHER	26	5	31
APPL GEOL, GEOL ENG, ECON GEOL	18	1	19
FUEL TECHNOL, PETROL ENG	4		4
EARTH SCIENCES, GENERAL	36	1	37
EARTH SCIENCES, OTHER	22	2	24

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL
ENGINEERING	**2431**	**63**	**2494**
AERONAUTICAL AND ASTRONAUTICAL	81		81
AGRICULTURAL	66		66
BIOMEDICAL	68	1	69
CIVIL	234	2	236
CHEMICAL	279	8	287
CERAMIC	23	1	24
COMPUTER	76	3	79
ELECTRICAL	444	7	451
ELECTRONICS	82	1	83
INDUSTRIAL	77	6	83
NUCLEAR	92	3	95
ENGINEERING MECHANICS	84	1	85
ENGINEERING PHYSICS	16	1	17
MECHANICAL	278	4	282
METALLURGY AND PHYSICAL MET	87		87
SYSTEMS DESIGN, SYSTEMS SCIENCE	70	5	75
OPERATIONS RESEARCH	61	5	66
FUEL TECH, PETROLEUM	23	1	24
SANITARY AND ENVIRONMENTAL	64	2	66
MINING	4		4
MATERIALS SCIENCE	118	7	125
ENGINEERING, GENERAL	31	2	33
ENGINEERING, OTHER	73	3	76
LIFE SCIENCES	**3886**	**1190**	**5076**
BIOLOGICAL SCIENCES	2428	889	3317
BIOCHEMISTRY	444	156	600
BIOPHYSICS	119	14	133
BIOMETRICS, BIOSTATISTICS	33	11	44
ANATOMY	103	48	151
CYTOLOGY	28	11	39
EMBRYOLOGY	7	7	14
IMMUNOLOGY	86	48	134
BOTANY	104	38	142
ECOLOGY	148	25	173
HYDROBIOLOGY	7	3	10
MICROBIOLOGY AND BACTERIOLOGY	231	118	349
PHYSIOLOGY, ANIMAL	236	76	312
PHYSIOLOGY, PLANT	44	13	57
ZOOLOGY	190	59	249
GENETICS	89	52	141
ENTOMOLOGY	151	11	162
MOLECULAR BIOLOGY	107	33	140
NUTRITION AND/OR DIETETICS	39	68	107
BIOL SCIENCES, GENERAL	138	50	188
BIOL SCIENCES, OTHER	124	48	172
AGRICULTURAL SCIENCES	917	91	1008
AGRONOMY	129	9	138
AGRICULTURAL ECONOMICS	142	11	153
ANIMAL HUSBANDRY	25	1	26
FOOD SCIENCE AND TECHNOLOGY	85	22	107
FISH AND WILDLIFE	64	2	66
FORESTRY	82	5	87
HORTICULTURE	60	9	69
SOILS AND SOIL SCIENCE	68	3	71
ANIMAL SCIENCE AND ANIMAL NUTRITION	104	8	112
PHYTOPATHOLOGY	69	19	88
AGRICULTURE, GENERAL	7		7
AGRICULTURE, OTHER	82	2	84
MEDICAL SCIENCES	541	210	751
PUBLIC HEALTH AND EPIDEMIOLOGY	69	52	121
VETERINARY MEDICINE	37	4	41
NURSING	4	49	53
PARASITOLOGY	16	5	21
ENVIRONMENTAL HEALTH	34	6	40
PATHOLOGY	65	20	85
PHARMACOLOGY	184	33	217
PHARMACY	54	15	69
MEDICAL SCIENCES, GENERAL	11	7	18
MEDICAL SCIENCES, OTHER	67	19	86

TABLE 1. CONTINUED

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL
SOCIAL SCIENCES (INCL PSYCH)	**4274**	**2105**	**6379**
ANTHROPOLOGY	215	168	383
COMMUNICATIONS	177	90	267
SOCIOLOGY	400	232	632
ECONOMICS	676	104	780
ECONOMETRICS	21	1	22
STATISTICS	19	4	23
GEOGRAPHY	106	23	129
AREA STUDIES	13	8	21
POLITICAL SCIENCE	427	95	522
PUBLIC ADMINISTRATION	136	27	163
INTERNATIONAL RELATIONS	63	18	81
URBAN AND REGIONAL PLANNING	76	15	91
SOCIAL SCIENCES, GENERAL	16	17	33
SOCIAL SCIENCES, OTHER	105	46	151
PSYCHOLOGY	1824	1257	3081
CLINICAL	635	421	1056
COUNSELING AND GUIDANCE	177	138	315
DEVELOP AND GERONTOL	86	135	221
EDUCATIONAL	90	73	163
SCHOOL PSYCHOLOGY	66	60	126
EXPERIMENTAL	211	82	293
COMPARATIVE	11	10	21
PHYSIOLOGICAL	75	27	102
INDUSTRIAL AND PERSONNEL	67	20	87
PERSONALITY	19	23	42
PSYCHOMETRICS	19	6	25
SOCIAL	125	90	215
PSYCHOLOGY, GENERAL	122	87	209
PSYCHOLOGY, OTHER	121	85	206
HUMANITIES	**2549**	**1594**	**4143**
ART, HISTORY AND CRITICISM	65	101	166
HISTORY, AMERICAN	228	73	301
HISTORY, EUROPEAN	155	63	218
HISTORY, OTHER	209	73	282
HISTORY AND PHILOSOPHY OF SCIENCE	22	6	28
AMERICAN STUDIES	55	29	84
THEATRE AND THEATRE CRITICISM	55	41	96
MUSIC	304	115	419
SPEECH AS A DRAMATIC ART	35	19	54
ARCHEOLOGY	23	12	35
RELIGION	162	32	194
PHILOSOPHY	225	52	277
LINGUISTICS	78	77	155
COMPARATIVE LITERATURE	74	69	143
LANGUAGES AND LITERATURE	817	798	1615
AMERICAN	109	98	207
ENGLISH	371	333	704
GERMAN	54	62	116
RUSSIAN	15	27	42
FRENCH	63	124	187
SPANISH AND PORTUGUESE	92	89	181
ITALIAN	16	4	20
CLASSICAL	40	16	56
OTHER LANGUAGES	57	45	102
HUMANITIES, GENERAL	10	9	19
HUMANITIES, OTHER	32	25	57
PROFESSIONAL FIELDS	**1051**	**363**	**1414**
THEOLOGY	174	17	191
BUSINESS ADMINISTRATION	621	91	712
HOME ECONOMICS	13	75	88
JOURNALISM	16	1	17
SPEECH AND HEARING SCIENCES	64	75	139
LAW, JURISPRUDENCE	22	1	23
SOCIAL WORK	84	70	154
LIBRARY AND ARCHIVAL SCIENCE	37	29	66
PROFESSIONAL FIELDS, OTHER	20	4	24

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL
EDUCATION	**4270**	**3100**	**7370**
FOUNDATIONS: SOCIAL, PHILOS	174	67	241
EDUCATIONAL PSYCHOLOGY	225	190	415
ELEMENTARY EDUCATION, GENERAL	42	126	168
SECONDARY EDUCATION, GENERAL	83	71	154
HIGHER EDUCATION	419	262	681
ADULT EDUC AND EXTENSION EDUC	94	73	167
EDUCATIONAL MEAS AND STATISTICS	61	43	104
CURRICULUM AND INSTRUCTION	471	402	873
EDUCATIONAL ADMIN AND SUPERVISION	1065	423	1488
GUIDANCE,COUNS,STUDENT PERSONNEL	334	272	606
SPECIAL ED (GIFTED,HANDICAPPED,ETC)	139	177	316
AUDIO-VISUAL MEDIA	64	28	92
TEACHING FIELDS	785	628	1413
AGRICULTURE	24		24
ART	23	27	50
BUSINESS	36	30	66
ENGLISH	39	41	80
FOREIGN LANGUAGE	20	19	39
HOME ECONOMICS		29	29
INDUSTRIAL ARTS	28	1	29
MATHEMATICS	51	34	85
MUSIC	53	35	88
PHYS ED, HEALTH, AND REC	218	128	346
READING	32	119	151
SCIENCE	70	23	93
SOCIAL SCIENCE	41	24	65
SPEECH	5	11	16
VOCATIONAL	130	70	200
OTHER TEACHING FIELDS	15	37	52
EDUCATION, GENERAL	212	203	415
EDUCATION, OTHER	102	135	237
OTHER AND UNSPECIFIED	**16**	**10**	**26**

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 1A
NUMBER OF DOCTORATE RECIPIENTS BY CITIZENSHIP, RACIAL/ETHNIC GROUP, AND SUBFIELD, FY 1979

SUBFIELD OF DOCTORATE	TOTAL DOCTORATES	NON-U.S. CITIZENS TEMP. VISAS	U.S. CITIZENS AND NON-U.S. WITH PERMANENT VISAS RACIAL/ETHNIC GROUP[1]						
			TOTAL	AMERICAN INDIAN	ASIAN	BLACK	HISPANIC	WHITE	OTHER & UNKNOWN
TOTAL ALL FIELDS	31200[2]	3574	26683	162	1097	1106	535	22222	1561
PHYSICAL SCIENCES	4298	667	3544	19	244	52	51	2926	252
MATHEMATICS	768	149	601		46	11	10	503	31
ALGEBRA	87	10	77		3	2	2	67	3
ANALYSIS AND FUNCTIONAL ANALYSIS	111	22	89		7	3	1	71	7
GEOMETRY	25	4	21					20	1
LOGIC	21	3	18					17	1
NUMBER THEORY	17	1	16		1	1		13	1
PROBABILITY, MATH STATISTICS	165	37	127		14	1	4	104	4
TOPOLOGY	60	8	52		3	1		46	2
COMPUTING THEORY AND PRACTICE	25	3	22					22	
OPERATIONS RESEARCH	43	10	33		5	1		25	2
APPLIED	111	29	79		5	1	2	68	3
MATHEMATICS, GENERAL	81	22	45		8	1	1	29	6
MATHEMATICS, OTHER	22		22					21	1
COMPUTER SCIENCES	209	32	174	2	9	1	2	151	9
PHYSICS AND ASTRONOMY	1108	207	870	3	63	8	15	689	92
ASTRONOMY	58	6	52		3		1	43	5
ASTROPHYSICS	57	7	49			1	1	42	5
ATOMIC AND MOLECULAR	72	6	66		4	1	1	55	5
ELECTROMAGNETISM	6	2	4					4	
ACOUSTICS	13	2	11		1			10	
FLUIDS	14		14		1		1	11	1
PLASMA	62	14	48	2	5			37	4
OPTICS	46	10	36		1	1		33	1
THERMAL	7	1	6					5	1
ELEMENTARY PARTICLES	119	22	97		7		3	76	11
NUCLEAR STRUCTURE	103	21	82		5	2		69	6
SOLID STATE	243	48	195		20	1	3	152	19
PHYSICS, GENERAL	196	46	121		12		2	81	26
PHYSICS, OTHER	112	22	89	1	4	2	3	71	8
CHEMISTRY	1567	208	1335	10	105	29	18	1083	90
ANALYTICAL	207	18	189	1	9	2	3	165	9
INORGANIC	195	13	182	1	10	5	1	154	11
ORGANIC	468	65	403	4	32	9	6	328	24
NUCLEAR	14	2	12	1	1			7	3
PHYSICAL	326	35	289	1	21	9	7	237	14
THEORETICAL	50	8	42		2	1	1	38	
AGRICULTURAL AND FOOD	11	2	9		1			6	2
PHARMACEUTICAL	43	5	37	1	7			26	3
POLYMER	67	22	45		4	1		37	3
CHEMISTRY, GENERAL	128	27	81		13	2		53	13
CHEMISTRY, OTHER	58	11	46	1	5			32	8
EARTH, ENVIRONMENTAL AND MARINE SCI	646	71	564	4	21	3	6	500	30
MINERALOGY, PETROLOGY	33	1	32	1		1		28	2
GEOCHEMISTRY	57	7	50	1	1		1	45	2
STRATIGRAPHY, SEDIMENTATION	34	3	31		1			28	2
PALEONTOLOGY	36	1	34					33	1
STRUCTURAL GEOLOGY	28	5	23					23	
GEOPHYSICS (SOLID EARTH)	81	10	68		5			59	4
GEOMORPHOL, GLACIAL GEOLOGY	14		14					14	
HYDROLOGY AND WATER RESOURCES	20	3	17		1		1	11	4
OCEANOGRAPHY	91	11	79		3		1	72	3
MARINE SCIENCES, OTHER	31	2	29					28	1
ATMOSPHERIC PHYSICS AND CHEMISTRY	16	1	15			1	2	12	
ATMOSPHERIC DYNAMICS	26	5	21		4			15	2
ATMOSPHERIC SCIENCES, OTHER	42	11	31	1	1	1		26	2
ENVIRONMENTAL SCIENCES, GENERAL	22		22		2		1	18	1
ENVIRONMENTAL SCIENCES, OTHER	31	2	27					26	1
APPL GEOL, GEOL ENG, ECON GEOL	19	1	17		1			15	1
FUEL TECHNOL, PETROL ENG	4	2	2					2	
EARTH SCIENCES, GENERAL	37	2	32	1	1			27	3
EARTH SCIENCES, OTHER	24	4	20		1			18	1

1/ For more detailed explanation of racial/ethnic groups see item H on questionnaire on page 40.
2/ Includes 943 individuals who did not report their citizenship at time of doctorate.

TABLE 1A. CONTINUED

SUBFIELD OF DOCTORATE	TOTAL DOCTORATES	NON-U.S. CITIZENS TEMP. VISAS	U.S. CITIZENS AND NON-U.S. WITH PERMANENT VISAS RACIAL/ETHNIC GROUP 1/						
			TOTAL	AMERICAN INDIAN	ASIAN	BLACK	HISPANIC	WHITE	OTHER & UNKNOWN
ENGINEERING	**2494**	**816**	**1616**	**4**	**305**	**20**	**24**	**1154**	**109**
AERONAUTICAL AND ASTRONAUTICAL	81	35	45		10	1	1	28	5
AGRICULTURAL	66	39	27		2	2	1	20	2
BIOMEDICAL	69	7	62		7	1	2	50	2
CIVIL	236	107	120	1	20	2	2	90	5
CHEMICAL	287	98	184		40	1	3	131	9
CERAMIC	24	4	18				2	14	2
COMPUTER	79	29	49	1	13			31	4
ELECTRICAL	451	117	321	1	71	6	3	215	25
ELECTRONICS	83	31	52		14	3	2	30	3
INDUSTRIAL	83	23	54		9			41	4
NUCLEAR	95	24	69		10		2	54	3
ENGINEERING MECHANICS	85	32	51		10			34	7
ENGINEERING PHYSICS	17	4	13		1			12	
MECHANICAL	282	87	192	1	35	1	2	140	13
METALLURGY AND PHYSICAL MET	87	34	52		10			40	2
SYSTEMS DESIGN, SYSTEMS SCIENCE	75	16	56		10	1		41	4
OPERATIONS RESEARCH	66	21	44		5	1	2	35	1
FUEL TECH, PETROLEUM	24	16	6					5	1
SANITARY AND ENVIRONMENTAL	66	8	58		7		1	45	5
MINING	4	2	2					2	
MATERIALS SCIENCE	125	43	80		21		1	53	5
ENGINEERING, GENERAL	33	8	20		3	1		16	
ENGINEERING, OTHER	76	31	41		7			27	7
LIFE SCIENCES	**5076**	**680**	**4257**	**15**	**227**	**61**	**46**	**3655**	**253**
BIOLOGICAL SCIENCES	3317	264	2966	11	158	32	34	2560	171
BIOCHEMISTRY	600	51	536	4	42	5	6	453	26
BIOPHYSICS	133	13	113	1	4		2	89	12
BIOMETRICS, BIOSTATISTICS	44	3	41		5	2		32	2
ANATOMY	151	5	145		7	2	4	124	8
CYTOLOGY	39		39		4	1	1	28	5
EMBRYOLOGY	14		14		1	2	1	8	2
IMMUNOLOGY	134	3	131		8	2	2	113	8
BOTANY	142	15	125		4	2	2	110	7
ECOLOGY	173	5	168	1	5		3	147	12
HYDROBIOLOGY	10		10		1			8	1
MICROBIOLOGY AND BACTERIOLOGY	349	19	315		20	5	1	268	21
PHYSIOLOGY, ANIMAL	312	14	294	3	14	5	2	260	10
PHYSIOLOGY, PLANT	57	13	43		2		1	39	1
ZOOLOGY	249	9	232		3		1	209	19
GENETICS	141	17	122	1	9			109	3
ENTOMOLOGY	162	36	124	1	6		2	112	3
MOLECULAR BIOLOGY	140	15	124		5	1	2	107	9
NUTRITION AND/OR DIETETICS	107	14	90		7	5		74	4
BIOL SCIENCES, GENERAL	188	17	152		4		2	134	12
BIOL SCIENCES, OTHER	172	15	148		4		2	136	6
AGRICULTURAL SCIENCES	1008	333	649	2	30	11	7	561	38
AGRONOMY	138	57	78		2	2	1	66	7
AGRICULTURAL ECONOMICS	153	68	77		7	2	1	61	6
ANIMAL HUSBANDRY	26	4	21		1			20	
FOOD SCIENCE AND TECHNOLOGY	107	35	70		5	3	1	59	2
FISH AND WILDLIFE	66	4	62		1		1	57	3
FORESTRY	87	22	64		2		1	58	3
HORTICULTURE	69	16	50		3	2		43	2
SOILS AND SOIL SCIENCE	71	38	33		2			27	4
ANIMAL SCIENCE AND ANIMAL NUTRITION	112	34	76	1	3		1	63	8
PHYTOPATHOLOGY	88	21	63		3	1	1	57	1
AGRICULTURE, GENERAL	7	5	1					1	
AGRICULTURE, OTHER	84	29	54	1	1	1		49	2
MEDICAL SCIENCES	751	83	642	2	39	18	5	534	44
PUBLIC HEALTH AND EPIDEMIOLOGY	121	10	106		5	6	1	92	2
VETERINARY MEDICINE	41	16	21		2			12	7
NURSING	53	2	50		1	1	1	42	5
PARASITOLOGY	21	5	16		1	2	1	11	1
ENVIRONMENTAL HEALTH	40	3	37		2	5		28	2
PATHOLOGY	85	10	73	1	1		1	66	4
PHARMACOLOGY	217	18	196	1	5	1	1	174	14
PHARMACY	69	10	53		16			35	2
MEDICAL SCIENCES, GENERAL	18	1	16		1	2		13	
MEDICAL SCIENCES, OTHER	86	8	74		5	1		61	7

TABLE 1A. CONTINUED

SUBFIELD OF DOCTORATE	TOTAL DOCTORATES	NON-U.S. CITIZENS TEMP. VISAS	U.S. CITIZENS AND NON-U.S. WITH PERMANENT VISAS RACIAL/ETHNIC GROUP 1/						
			TOTAL	AMERICAN INDIAN	ASIAN	BLACK	HISPANIC	WHITE	OTHER & UNKNOWN
SOCIAL SCIENCES (INCL PSYCH)	**6379**	**550**	**5576**	**36**	**127**	**220**	**107**	**4767**	**319**
ANTHROPOLOGY	383	27	346	6	7	8	6	285	34
COMMUNICATIONS	267	22	238	2	3	12	2	205	14
SOCIOLOGY	632	60	561	5	21	30	15	461	29
ECONOMICS	780	196	564	2	29	9	10	463	51
ECONOMETRICS	22	5	16					15	1
STATISTICS	23	11	12		2			9	1
GEOGRAPHY	129	15	108	1	6	2	1	93	5
AREA STUDIES	21	1	19				1	18	
POLITICAL SCIENCE	522	61	435	1	8	24	13	363	26
PUBLIC ADMINISTRATION	163	25	132	1	4	11	2	98	16
INTERNATIONAL RELATIONS	81	17	64		5	1	1	57	
URBAN AND REGIONAL PLANNING	91	21	68		6	6	2	52	2
SOCIAL SCIENCES, GENERAL	33	5	27		1	1		23	2
SOCIAL SCIENCES, OTHER	151	12	134		2	3	5	115	9
PSYCHOLOGY	3081	72	2852	18	33	113	49	2510	129
CLINICAL	1056	6	950	6	8	39	24	836	37
COUNSELING AND GUIDANCE	315	7	305	1	1	14	4	274	11
DEVELOP AND GERONTOL	221	7	214	2	2	6	3	192	9
EDUCATIONAL	163	8	151	1	2	8	1	131	8
SCHOOL PSYCHOLOGY	126	2	120	1	1	4		113	1
EXPERIMENTAL	293	10	282		7	3		258	14
COMPARATIVE	21		21	1		1	1	16	2
PHYSIOLOGICAL	102	3	98		2		1	95	
INDUSTRIAL AND PERSONNEL	87	2	85	2			2	79	2
PERSONALITY	42	1	40			3	2	31	4
PSYCHOMETRICS	25	2	22		1	1		19	1
SOCIAL	215	7	206	1	2	14	4	181	4
PSYCHOLOGY, GENERAL	209	8	165	1	3	11	3	122	25
PSYCHOLOGY, OTHER	206	9	193	2	4	9	4	163	11
HUMANITIES	**4143**	**197**	**3810**	**23**	**72**	**130**	**130**	**3230**	**225**
ART, HISTORY AND CRITICISM	166	9	152		4	2	1	140	5
HISTORY, AMERICAN	301	6	295	3	1	25	4	246	16
HISTORY, EUROPEAN	218	11	207	1	1	1	3	191	10
HISTORY, OTHER	282	17	248	1	10	12	10	192	23
HISTORY AND PHILOSOPHY OF SCIENCE	28	2	25					19	6
AMERICAN STUDIES	84	2	79		1	13		63	2
THEATRE AND THEATRE CRITICISM	96	7	89			1	1	79	8
MUSIC	419	9	390	6	3	11	5	346	19
SPEECH AS A DRAMATIC ART	54	3	49			5		39	5
ARCHEOLOGY	35	4	30		2			27	1
RELIGION	194	4	176	2	9	4	3	145	13
PHILOSOPHY	277	15	252	3	3	7	6	220	13
LINGUISTICS	155	36	110	1	9	2	6	87	5
COMPARATIVE LITERATURE	143	14	119		4	1	2	108	4
LANGUAGES AND LITERATURE	1615	52	1520	5	25	40	88	1274	88
AMERICAN	207	5	202	2	1	9	3	182	5
ENGLISH	704	21	665	1	8	16	2	589	49
GERMAN	116	3	107	1	1	3		94	8
RUSSIAN	42	1	41					37	4
FRENCH	187	5	178	1	5	7	3	154	8
SPANISH AND PORTUGUESE	181	7	170		2	2	78	85	3
ITALIAN	20		20				1	19	
CLASSICAL	56	3	53		1	1		47	4
OTHER LANGUAGES	102	7	84		7	2	1	67	7
HUMANITIES, GENERAL	19		19	1		2	1	14	1
HUMANITIES, OTHER	57	6	50			4		40	6
PROFESSIONAL FIELDS	**1414**	**181**	**1201**	**3**	**36**	**51**	**12**	**1033**	**66**
THEOLOGY	191	11	173		1	2	1	159	10
BUSINESS ADMINISTRATION	712	122	575	1	22	14	6	500	32
HOME ECONOMICS	88	6	82		1	5		73	3
JOURNALISM	17	3	14					12	2
SPEECH AND HEARING SCIENCES	139	2	133	1		10	1	114	7
LAW, JURISPRUDENCE	23	12	10		1		1	8	
SOCIAL WORK	154	6	145	1	8	17	2	112	5
LIBRARY AND ARCHIVAL SCIENCE	66	8	57		2	3	1	45	6
PROFESSIONAL FIELDS, OTHER	24	11	12		1			10	1

TABLE 1A. CONTINUED

SUBFIELD OF DOCTORATE	TOTAL DOCTORATES	NON-U.S. CITIZENS TEMP. VISAS	U.S. CITIZENS AND NON-U.S. WITH PERMANENT VISAS RACIAL/ETHNIC GROUP[1/]						
			TOTAL	AMERICAN INDIAN	ASIAN	BLACK	HISPANIC	WHITE	OTHER & UNKNOWN
EDUCATION	**7370**	**479**	**6660**	**62**	**85**	**570**	**165**	**5442**	**336**
FOUNDATIONS: SOCIAL, PHILOS	241	27	210	2	6	12	8	177	5
EDUCATIONAL PSYCHOLOGY	415	25	387	3	2	20	10	333	19
ELEMENTARY EDUCATION, GENERAL	168	7	159	2	2	16	4	126	9
SECONDARY EDUCATION, GENERAL	154	12	140	1		13	3	119	4
HIGHER EDUCATION	681	26	649	9	12	66	14	522	26
ADULT EDUC AND EXTENSION EDUC	167	11	154	2	1	9	3	135	4
EDUCATIONAL MEAS AND STATISTICS	104	11	93		4	3	4	77	5
CURRICULUM AND INSTRUCTION	873	78	787	7	12	82	33	618	35
EDUCATIONAL ADMIN AND SUPERVISION	1488	69	1406	13	14	156	32	1132	59
GUIDANCE,COUNS,STUDENT PERSONNEL	606	20	579	4	2	45	14	484	30
SPECIAL ED (GIFTED,HANDICAPPED,ETC)	316	9	306	4	4	16	3	261	18
AUDIO-VISUAL MEDIA	92	11	80	2	3	2		72	1
TEACHING FIELDS	1413	124	1258	10	13	78	25	1055	77
AGRICULTURE	24	6	18	1		6		11	
ART	50	6	43		1	5	1	35	1
BUSINESS	66	4	61	1	1	6	1	48	4
ENGLISH	80	8	69	1	1	3	2	60	2
FOREIGN LANGUAGE	39	11	24		1	1	3	19	
HOME ECONOMICS	29	1	28			5		20	3
INDUSTRIAL ARTS	29	2	26	1		1		23	1
MATHEMATICS	85	7	78			10	2	63	3
MUSIC	88	5	81			7	2	67	5
PHYS ED, HEALTH, AND REC	346	31	308	4	6	7	3	254	34
READING	151	4	146			9	4	127	6
SCIENCE	93	14	79	1		2	3	68	5
SOCIAL SCIENCE	65	8	57			3	1	49	4
SPEECH	16		16			1		15	
VOCATIONAL	200	12	184	1	3	11	3	159	7
OTHER TEACHING FIELDS	52	5	40			1		37	2
EDUCATION, GENERAL	415	32	246	1	4	25	7	177	32
EDUCATION, OTHER	237	17	206	2	6	27	5	154	12
OTHER AND UNSPECIFIED	**26**	**4**	**19**		**1**	**2**		**15**	**1**

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 2
STATISTICAL PROFILE OF DOCTORATE RECIPIENTS BY FIELD OF DOCTORATE, FY 1979 1/

TOTAL ALL DOCTORATES

	FY 1979 TOTAL	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH, ENVIRONM. AND MARINE SCIENCES	PHYSICAL SCIENCES	MATHEMATICS	COMPUTER SCIENCES	ENGINEERING	EMP FIELDS	BASIC MEDICAL SCIENCES	OTHER BIOSCIENCES	BIOSCIENCES	MEDICAL SCIENCES	AGRICULTURAL SCIENCES
NUMBER IN FIELD	31200	1108	1567	646	3321	768	209	2494	6792	1872	1445	3317	751	1008
MALE %	71.4	93.4	86.0	91.0	89.4	84.6	87.1	97.5	91.8	72.7	73.8	73.2	72.0	91.0
FEMALE %	28.6	6.6	14.0	9.0	10.6	15.4	12.9	2.5	8.2	27.3	26.2	26.8	28.0	9.0
U.S. CITIZENSHIP %	81.3	72.2	79.1	82.0	77.4	71.6	77.5	51.9	67.4	86.7	84.0	85.5	80.2	60.8
FOREIGN CITIZENSHIP %	15.7	25.0	19.3	16.3	20.6	26.0	21.1	45.6	30.4	11.1	12.8	11.8	16.4	36.6
UNKNOWN %	3.0	2.8	1.5	1.7	2.0	2.3	1.4	2.5	2.2	2.2	3.2	2.6	3.5	2.6
MARRIED %	62.2	54.0	57.0	61.1	56.8	51.8	61.7	64.7	59.3	58.3	58.7	58.5	63.1	75.8
NOT MARRIED %	33.0	41.0	40.1	34.8	39.4	44.7	36.4	31.2	36.9	37.6	35.9	36.9	31.3	20.8
UNKNOWN %	4.8	5.1	2.9	4.0	3.8	3.5	1.9	4.0	3.8	4.1	5.4	4.6	5.6	3.4
MEDIAN AGE AT DOCTORATE	31.9	29.2	28.2	30.2	28.9	29.3	30.1	30.3	29.5	29.0	30.3	29.4	31.3	31.4
PERCENT WITH BACC IN SAME FIELD AS DOCTORATE	53.8	81.2	88.5	47.5	78.1	81.4	8.6	77.9	76.3	17.9	66.0	38.8	25.0	58.5
PERCENT WITH MASTERS	81.2	66.6	39.7	78.0	56.1	79.8	81.8	90.6	72.3	42.7	65.5	52.6	63.5	91.9
MEDIAN TIME LAPSE FROM BACC TO DOCT														
TOTAL TIME YRS	9.0	7.0	6.0	7.6	6.6	7.1	7.5	7.6	7.0	6.6	7.7	7.0	8.1	8.1
REGISTERED TIME YRS	6.2	6.1	5.2	6.0	5.6	5.9	5.8	5.5	5.6	5.6	6.1	5.8	5.9	5.3
POSTDOCTORAL STUDY PLANS %	17.8	46.8	43.8	28.2	41.8	11.7	6.7	13.5	26.9	74.3	44.1	61.1	40.7	13.1
FELLOWSHIP	8.8	15.1	20.0	11.0	16.6	6.4	1.9	3.6	10.2	47.1	24.6	37.3	23.7	4.5
RESEARCH ASSOC	6.4	30.5	22.1	16.3	23.8	3.4	4.8	8.4	15.2	16.2	15.7	16.0	9.5	7.0
TRAINEESHIP	1.0	.6	.6	.3	.6	.7	.0	.8	.6	3.7	1.3	2.7	1.9	.9
OTHER	1.6	.5	1.1	.6	.8	1.3	.0	.7	.8	7.3	2.4	5.2	5.7	.7
PLANNED EMPLOYMENT AFTER DOCTORATE %	75.0	45.7	51.9	65.3	52.5	80.5	88.5	80.8	67.1	20.6	47.8	32.4	52.3	80.7
EDUC INSTITUTION	46.0	12.9	9.0	24.3	13.3	57.3	46.9	23.4	23.0	10.4	29.2	18.6	28.4	44.6
INDUSTRY/BUSINESS	12.0	22.0	35.4	23.8	28.7	14.3	34.4	41.7	32.0	5.8	5.3	5.6	9.7	13.7
GOVERNMENT	9.0	7.7	5.0	12.8	7.4	6.1	5.3	12.0	8.9	2.6	8.4	5.1	8.4	16.8
NONPROFIT	4.5	.8	.8	2.3	1.1	1.0	1.0	2.0	1.4	1.2	2.3	1.7	3.9	2.5
OTHER & UNKNOWN	3.5	2.3	1.8	2.0	2.0	1.7	1.0	1.6	1.8	.6	2.6	1.5	2.0	3.1
POSTDOCT STATUS UNKN %	7.2	7.6	4.2	6.5	5.8	7.8	4.8	5.7	5.9	5.1	8.2	6.5	6.9	6.3
DEFINITE POSTDOCTORAL STUDY	13.4	37.9	35.8	19.7	33.4	7.2	5.3	8.9	20.5	64.4	33.7	51.0	34.4	7.7
SEEKING POSTDOCTORAL STUDY	4.3	8.8	8.0	8.5	8.4	4.6	1.4	4.7	6.4	9.9	10.4	10.1	6.4	5.4
DEFINITE EMPLOYMENT	54.2	34.1	42.5	53.6	41.9	59.9	70.8	63.6	52.8	14.6	31.8	22.1	40.3	59.0
SEEKING EMPLOYMENT	20.9	11.6	9.4	11.8	10.6	20.6	17.7	17.2	14.4	6.0	16.0	10.3	12.0	21.6
EMPLOYMENT ACTIVITY AFTER DOCTORATE %														
PRIMARY ACTIVITY														
R & D	25.0	68.8	75.8	52.9	68.2	38.9	59.5	62.4	61.5	49.8	38.3	42.6	41.3	50.3
TEACHING	41.3	17.7	12.8	24.3	17.0	49.8	30.4	20.4	23.2	28.6	38.6	34.8	29.7	23.0
ADMINISTRATION	12.7	1.9	2.0	3.8	2.4	2.4	2.0	1.7	2.1	4.0	4.4	4.2	10.2	2.0
PROF. SERVICES	10.0	1.9	1.5	6.6	2.9	3.7	2.0	3.8	3.4	4.4	7.0	6.0	7.6	5.9
OTHER	2.9	3.2	1.7	4.9	2.9	1.3	2.7	3.3	2.9	2.2	3.7	3.1	1.3	6.9
ACTIVITY UNKNOWN	7.9	6.6	6.3	7.5	6.7	3.9	3.4	8.4	6.9	11.0	8.1	9.2	9.9	11.9
SECONDARY ACTIVITY														
R & D	25.4	11.9	9.8	26.0	14.4	39.6	23.6	18.4	19.8	23.4	33.8	29.9	28.1	19.5
TEACHING	10.8	6.6	4.4	8.7	6.0	18.0	20.3	8.0	9.0	13.6	15.3	14.6	18.8	20.0
ADMINISTRATION	8.9	5.3	10.7	9.2	8.8	4.1	8.8	8.7	8.2	9.5	5.7	7.1	10.2	7.7
PROF. SERVICES	6.5	5.6	4.2	6.6	5.2	4.1	4.1	3.8	4.4	5.9	6.3	6.1	5.6	5.2
OTHER	1.9	.5	.8	1.4	.9	.9	.0	1.1	.9	1.5	.4	.8	1.3	1.5
NO SECONDARY ACTIVITY	38.5	63.5	64.0	40.5	58.0	29.3	39.9	51.6	50.7	35.2	30.5	32.2	26.1	34.1
UNKNOWN	7.9	6.6	6.3	7.5	6.7	3.9	3.4	8.4	6.9	11.0	8.1	9.2	9.9	11.9
REGION OF EMPLOYMENT AFTER DOCTORATE %														
NEW ENGLAND	6.3	7.1	4.8	6.4	5.8	9.6	4.7	6.0	6.3	4.8	4.1	4.4	4.3	3.0
MIDDLE ATLANTIC	14.5	17.2	21.2	7.2	16.6	16.5	24.3	15.7	16.5	15.8	13.9	14.6	15.5	4.0
EAST NO CENTRAL	14.7	8.2	17.9	7.2	12.6	15.4	15.5	13.7	13.6	18.3	11.1	13.8	14.5	9.9
WEST NO CENTRAL	6.6	3.2	7.1	4.0	5.3	4.6	4.1	3.2	4.2	4.0	5.9	5.2	5.3	7.1
SOUTH ATLANTIC	15.9	14.6	14.6	12.1	14.0	17.8	8.8	10.0	12.5	22.0	19.4	20.4	17.2	13.6
EAST SO CENTRAL	5.0	2.4	5.0	3.8	4.0	3.0	4.1	3.6	3.7	3.3	4.4	4.0	3.3	7.1
WEST SO CENTRAL	8.1	7.7	9.8	19.9	11.7	5.4	8.1	8.3	9.2	8.8	7.2	7.8	7.9	8.7
MOUNTAIN	4.9	6.1	3.0	10.1	5.6	4.3	6.8	5.7	5.6	2.2	4.4	3.6	4.0	5.5
PACIFIC & INSULAR	11.1	19.6	7.5	15.9	12.9	11.5	16.9	17.4	14.9	8.8	12.0	10.8	13.2	6.7
FOREIGN	8.9	10.8	5.0	9.2	7.6	7.4	5.4	12.1	9.5	7.7	15.7	12.7	13.5	30.9
REGION UNKNOWN	4.1	3.2	4.4	4.0	4.0	4.3	1.4	4.3	4.0	4.4	2.0	2.9	1.3	3.4

1/ Refer to explanatory note on page 22 and the description of doctoral field groupings inside back cover.

TABLE 2. CONTINUED

TOTAL ALL DOCTORATES

LIFE SCIENCES	PSYCHOLOGY	ECONOMICS	ANTHROPOLOGY & SOCIOLOGY	POLIT. SCI., PUBLIC ADMIN., INTERN'L REL.	OTHER SOCIAL SCIENCES	SOCIAL SCIENCES INCL. PSYCHOL.	TOTAL SCIENCES	HISTORY	ENG. AND AMER. LANG. AND LIT.	FOREIGN LANG. AND LIT.	OTHER HUMANITIES	HUMANITIES	PROFESSIONAL FIELDS	EDUCATION	TOTAL NON-SCIENCES	OTHER OR UNSPECIFIED 2/
5076	3081	802	1015	766	715	6379	18247	829	911	704	1699	4143	1414	7370	12927	26
76.6	59.2	86.9	60.6	81.7	71.6	67.0	78.9	74.1	52.7	47.9	65.8	61.5	74.3	57.9	60.9	61.5
23.4	40.8	13.1	39.4	18.3	28.4	33.0	21.1	25.9	47.3	52.1	34.2	38.5	25.7	42.1	39.1	38.5
79.8	91.2	65.8	84.9	78.9	81.3	84.4	76.8	91.0	94.3	82.0	86.1	88.2	80.8	88.8	87.7	
17.4	3.7	31.5	13.0	17.0	15.7	11.6	20.2	6.9	3.7	14.5	9.5	8.5	16.9	8.1	9.2	
2.7	5.1	2.6	2.1	4.2	3.1	4.0	3.0	2.2	2.0	3.6	4.4	3.3	2.3	3.1	3.1	
62.6	52.9	57.2	61.1	65.1	63.5	57.4	59.5	61.5	59.1	57.8	58.3	59.0	69.3	69.3	66.0	
32.9	40.5	35.9	34.8	27.8	31.9	36.5	35.6	33.9	35.8	36.6	34.8	35.2	27.2	26.2	29.2	
4.5	6.6	6.9	4.1	7.0	4.6	6.1	4.8	4.6	5.2	5.5	6.8	5.8	3.5	4.4	4.8	
30.0	30.5	31.0	32.9	33.2	32.6	31.5	30.3	33.0	32.7	33.4	33.1	33.0	34.1	36.5	35.0	
40.7	65.1	59.6	52.2	52.9	24.6	56.4	59.4	64.8	76.7	68.6	50.8	62.3	37.5	38.6	46.1	
62.0	78.9	78.1	85.9	86.8	90.6	82.2	72.9	88.9	88.5	86.9	86.3	87.4	93.1	95.8	92.8	
7.3	7.7	8.3	9.7	10.2	9.6	8.5	7.6	10.3	10.1	10.4	10.4	10.3	10.7	12.7	11.6	
5.7	6.0	5.9	7.1	6.7	6.1	6.2	5.8	7.9	7.5	7.7	7.2	7.5	6.4	6.6	6.9	
48.6	15.5	5.1	10.9	5.6	5.5	11.2	27.4	8.2	3.2	6.8	6.0	6.0	3.2	3.4	4.2	
28.8	8.5	2.1	6.6	2.1	3.2	6.0	13.9	3.9	1.2	3.8	3.0	2.9	1.2	1.0	1.7	
13.3	3.1	2.2	3.0	2.0	1.1	2.6	10.3	2.3	.2	1.0	.8	1.0	1.4	.8	1.0	
2.2	2.5	.4	.2	.3	.3	1.3	1.3	.0	.2	.0	.4	.2	.1	.8	.5	
4.4	1.6	.4	1.2	1.3	.8	1.2	1.9	2.1	1.5	2.0	1.8	1.8	.5	.8	1.1	
44.9	76.4	87.7	81.6	83.9	87.6	80.8	65.7	81.4	87.3	83.2	83.5	83.9	91.1	90.0	88.1	
25.2	32.2	53.7	59.3	56.3	62.0	45.4	31.5	58.5	74.0	65.5	64.7	65.6	68.2	66.8	66.6	
7.8	10.7	11.7	4.9	5.6	8.8	9.1	17.3	4.6	5.4	5.8	5.1	5.2	7.2	3.9	4.7	
7.9	15.1	14.5	7.6	14.6	8.7	13.0	10.1	6.6	1.8	2.1	2.5	3.1	5.7	10.4	7.6	
2.1	13.0	3.2	5.0	4.3	4.9	8.6	4.1	5.3	.8	1.8	6.1	4.0	8.8	4.7	5.0	
1.9	5.5	4.5	4.7	3.1	3.2	4.7	2.8	6.4	5.4	8.0	5.2	5.9	1.1	4.1	4.4	
6.5	8.0	7.2	7.5	10.4	7.0	8.0	6.8	10.4	9.5	9.9	10.5	10.2	5.7	6.6	7.6	
40.0	11.2	3.1	6.7	3.4	3.4	7.6	21.4	3.9	1.9	3.4	3.0	3.0	2.2	1.8	2.2	
8.6	4.4	2.0	4.2	2.2	2.1	3.5	6.0	4.3	1.3	3.4	3.0	3.0	1.0	1.7	2.0	
32.1	52.4	72.9	57.4	62.7	67.0	58.6	49.1	49.2	53.3	45.2	53.3	51.1	76.9	64.1	61.3	
12.8	24.1	14.7	24.1	21.3	20.6	22.2	16.7	32.2	33.9	38.1	30.3	32.8	14.2	25.9	26.8	
45.2	17.3	32.6	27.4	12.9	19.8	21.1	41.6	6.6	2.5	5.0	5.6	5.0	10.3	6.0	6.3	
29.6	24.8	48.9	58.5	53.5	61.0	42.1	32.3	61.0	77.0	77.0	73.8	72.6	60.4	40.0	51.5	
4.5	5.7	3.6	4.5	16.0	4.4	6.3	4.3	12.7	4.9	4.1	3.9	5.9	8.9	32.7	22.3	
6.3	44.4	4.1	2.6	5.0	5.0	21.5	11.5	3.7	3.3	1.9	3.8	3.4	9.2	10.5	8.4	
4.2	1.4	1.7	1.9	5.0	3.3	2.2	2.8	6.9	4.1	2.5	5.9	5.1	3.7	2.0	3.1	
10.3	6.4	9.1	5.1	7.5	6.5	6.8	7.5	9.1	8.2	9.4	7.1	8.1	7.5	8.8	8.4	
25.8	25.3	39.8	41.2	32.9	41.1	33.1	26.4	27.5	32.1	39.3	30.8	31.7	42.1	16.8	24.3	
17.4	15.3	9.6	12.0	10.4	7.9	12.3	11.9	6.4	4.3	3.1	5.9	5.2	10.4	11.4	9.6	
7.9	10.4	6.3	6.7	9.8	9.2	9.0	8.5	7.8	8.0	5.0	7.7	7.4	6.9	10.9	9.4	
5.7	8.9	4.1	3.3	3.8	4.8	6.1	5.3	3.9	3.5	1.9	5.5	4.2	7.8	9.4	7.8	
1.2	2.3	1.7	1.0	.6	1.7	1.7	1.3	2.5	2.1	1.9	6.4	4.0	1.6	2.3	2.6	
31.8	31.4	29.4	30.7	35.0	28.8	31.1	39.1	42.9	41.8	39.3	36.6	39.4	23.7	40.3	37.8	
10.3	6.4	9.1	5.1	7.5	6.5	6.8	7.5	9.1	8.2	9.4	7.1	8.1	7.5	8.8	8.4	
3.9	7.3	8.9	6.7	7.1	4.2	7.0	6.2	9.3	8.2	11.3	7.2	8.5	5.4	5.7	6.4	
10.9	19.8	14.7	18.0	12.9	12.7	16.9	15.7	16.2	19.5	16.0	14.0	16.0	12.7	12.1	13.2	
12.5	16.2	10.9	13.6	12.7	20.7	15.1	14.0	15.0	17.1	15.4	13.8	15.0	15.7	15.4	15.4	
5.9	7.2	3.8	5.1	4.0	5.8	5.8	5.2	6.4	8.8	6.6	8.2	7.7	7.1	8.6	8.2	
17.3	14.3	24.3	14.2	23.8	14.2	17.0	15.3	17.6	17.1	12.9	16.7	16.4	15.4	17.1	16.7	
5.0	4.3	2.9	4.1	6.0	5.4	4.4	4.2	3.9	5.8	4.1	6.3	5.4	5.2	6.2	5.8	
8.2	6.7	3.9	5.8	4.0	5.4	5.6	7.5	7.4	8.8	5.3	6.2	6.9	10.5	9.1	8.7	
4.4	5.0	3.1	5.8	2.9	4.0	4.4	4.9	4.2	3.5	5.0	3.0	3.6	4.8	5.7	5.0	
9.8	11.8	8.4	12.0	11.7	10.6	11.1	12.4	8.6	4.3	10.7	12.0	9.4	10.1	9.5	9.6	
19.5	2.7	16.6	11.3	9.8	12.5	8.4	10.9	6.9	3.5	7.9	8.4	6.9	9.8	6.0	6.7	
2.8	4.8	2.6	3.3	5.2	4.4	4.2	3.9	4.7	3.3	4.7	4.2	4.2	3.3	4.6	4.3	

2/ Statistics are not presented for this group because too few records contained the specified data.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 2
STATISTICAL PROFILE OF DOCTORATE RECIPIENTS BY FIELD OF DOCTORATE, FY 1979 1/

DOCTORATES: MEN

	FY 1979 TOTAL	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH, ENVIRONM. AND MARINE SCIENCES	PHYSICAL SCIENCES	MATHEMATICS	COMPUTER SCIENCES	ENGINEERING	EMP FIELDS	BASIC MEDICAL SCIENCES	OTHER BIOSCIENCES	BIOSCIENCES	MEDICAL SCIENCES	AGRICULTURAL SCIENCES
TOTAL MALE	22279	1035	1347	588	2970	650	182	2431	6233	1361	1067	2428	541	917
MALE AS A PERCENT OF TOTAL DOCTORATES	71.4	93.4	86.0	91.0	89.4	84.6	87.1	97.5	91.8	72.7	73.8	73.2	72.0	91.0
U.S. CITIZENSHIP %	78.7	73.0	79.4	81.6	77.6	70.6	74.7	51.7	66.7	87.3	83.9	85.8	77.8	60.5
FOREIGN CITIZENSHIP %	18.3	24.3	18.9	16.7	20.4	26.8	23.6	45.9	31.1	10.3	13.0	11.5	18.3	36.9
UNKNOWN %	3.0	2.6	1.6	1.7	2.0	2.6	1.6	2.5	2.2	2.4	3.1	2.7	3.9	2.6
MARRIED %	65.9	54.3	57.7	62.8	57.5	52.0	62.6	65.0	60.0	60.2	61.3	60.7	68.0	77.3
NOT MARRIED %	29.1	40.7	39.4	33.2	38.6	44.3	35.2	30.9	36.1	35.2	32.9	34.2	25.5	19.2
UNKNOWN %	5.0	5.0	2.9	4.1	3.9	3.7	2.2	4.1	3.9	4.6	5.8	5.1	6.5	3.5
MEDIAN AGE AT DOCTORATE	31.5	29.2	28.2	30.3	29.0	29.4	30.0	30.4	29.6	28.9	30.4	29.4	30.9	31.6
PERCENT WITH BACC IN SAME FIELD AS DOCTORATE	55.4	81.6	88.7	47.1	78.0	80.9	9.3	78.9	76.7	17.8	65.2	38.6	19.6	61.0
PERCENT WITH MASTERS	79.6	66.5	38.2	78.4	56.0	78.6	82.4	90.6	72.6	41.9	66.6	52.8	58.4	92.1
MEDIAN TIME LAPSE FROM BACC TO DOCT														
TOTAL TIME YRS	8.6	7.0	5.9	7.7	6.6	7.0	7.3	7.6	7.0	6.5	7.7	6.9	7.7	8.2
REGISTERED TIME YRS	6.1	6.1	5.2	6.1	5.6	5.9	5.7	5.5	5.6	5.6	6.1	5.8	5.9	5.4
POSTDOCTORAL STUDY PLANS %	18.9	47.1	43.6	27.6	41.6	12.0	7.7	13.5	26.6	74.5	41.0	59.8	44.0	11.5
FELLOWSHIP	9.1	15.4	20.0	10.9	16.6	6.5	2.2	3.6	10.0	45.6	22.9	35.6	23.5	4.0
RESEARCH ASSOC	7.2	30.5	22.0	15.8	23.7	3.5	5.5	8.5	15.1	15.9	15.0	15.5	11.1	5.9
TRAINEESHIP	1.0	.6	.7	.3	.6	.6	.0	.7	.6	4.0	1.1	2.7	2.4	.9
OTHER	1.6	.6	.9	.5	.7	1.4	.0	.7	.8	9.1	2.1	6.0	7.0	.7
PLANNED EMPLOYMENT AFTER DOCTORATE %	74.1	45.9	52.2	66.5	52.8	80.3	87.4	80.7	67.6	20.1	50.4	33.4	49.0	82.2
EDUC INSTITUTION	43.3	12.4	8.1	24.0	12.7	57.5	45.6	23.2	22.4	9.5	30.0	18.5	24.6	45.4
INDUSTRY/BUSINESS	14.2	22.7	36.8	24.5	29.5	14.6	35.2	41.9	32.9	6.1	6.3	6.2	10.9	13.7
GOVERNMENT	9.7	7.8	5.2	13.6	7.8	6.2	4.9	12.0	9.2	2.9	9.3	5.7	8.7	17.8
NONPROFIT	4.2	.8	.7	2.4	1.1	.8	.5	2.0	1.4	1.2	2.4	1.8	3.7	2.6
OTHER & UNKNOWN	2.7	2.2	1.3	2.0	1.8	1.2	1.1	1.7	1.7	.4	2.4	1.3	1.1	2.7
POSTDOCT STATUS UNKN %	6.9	7.1	4.2	6.0	5.6	7.7	4.9	5.8	5.8	5.4	8.5	6.8	7.0	6.3
DEFINITE POSTDOCTORAL STUDY	14.5	38.3	36.5	19.6	33.7	7.4	6.0	8.9	20.5	64.8	31.2	50.0	37.5	6.2
SEEKING POSTDOCTORAL STUDY	4.4	8.8	7.1	8.0	7.9	4.6	1.6	4.6	6.1	9.7	9.8	9.8	6.5	5.2
DEFINITE EMPLOYMENT	55.3	34.5	43.5	54.9	42.6	59.2	69.2	63.4	53.2	14.9	34.5	23.5	40.3	61.6
SEEKING EMPLOYMENT	18.8	11.4	8.7	11.6	10.2	21.1	18.1	17.3	14.3	5.2	15.9	9.9	8.7	20.6
EMPLOYMENT ACTIVITY AFTER DOCTORATE %														
PRIMARY ACTIVITY														
R & D	29.1	70.0	78.5	54.2	69.9	38.2	60.3	62.3	62.3	53.7	39.4	44.5	44.0	49.7
TEACHING	38.0	16.8	10.8	23.5	15.7	49.6	30.2	20.4	22.4	24.1	38.0	33.1	26.1	22.5
ADMINISTRATION	12.5	2.0	1.9	3.7	2.4	2.9	1.6	1.7	2.1	3.4	3.8	3.7	8.7	2.1
PROF. SERVICES	9.0	1.7	1.2	7.1	2.8	3.9	2.4	3.7	3.3	5.4	6.5	6.1	8.7	6.2
OTHER	3.0	2.8	1.7	4.3	2.7	1.0	1.6	3.4	2.8	3.0	3.5	3.3	1.4	7.1
ACTIVITY UNKNOWN	8.4	6.7	6.0	7.1	6.5	4.4	4.0	8.5	7.1	10.3	8.7	9.3	11.0	12.4
SECONDARY ACTIVITY														
R & D	24.4	10.9	8.7	25.4	13.6	39.2	23.0	18.2	19.1	21.2	34.5	29.8	28.0	18.9
TEACHING	10.8	6.7	4.8	8.0	6.2	18.2	19.8	7.8	8.9	14.3	13.6	13.8	18.3	19.6
ADMINISTRATION	9.0	5.6	10.9	9.9	9.2	3.9	7.9	8.8	8.3	9.9	5.7	7.2	12.4	7.6
PROF. SERVICES	6.3	5.6	4.3	6.8	5.3	4.2	4.0	3.8	4.4	5.9	7.1	6.7	5.0	5.3
OTHER	1.5	.6	.9	1.5	.9	.8	.0	1.0	.9	2.0	.3	.9	.9	1.6
NO SECONDARY ACTIVITY	39.6	63.9	64.5	41.2	58.4	29.4	41.3	51.8	51.3	36.5	30.2	32.4	24.3	34.5
UNKNOWN	8.4	6.7	6.0	7.1	6.5	4.4	4.0	8.5	7.1	10.3	8.7	9.3	11.0	12.4
REGION OF EMPLOYMENT AFTER DOCTORATE %														
NEW ENGLAND	5.9	7.0	5.1	5.9	5.8	9.4	5.6	6.2	6.4	4.9	3.3	3.9	2.8	2.8
MIDDLE ATLANTIC	13.8	17.1	20.1	6.2	15.7	16.1	22.2	15.7	16.0	12.8	14.7	14.0	14.2	3.9
EAST NO CENTRAL	14.6	8.4	18.6	7.4	12.9	15.3	16.7	13.5	13.6	18.7	10.6	13.5	14.7	9.7
WEST NO CENTRAL	6.4	3.1	7.2	4.3	5.3	4.7	4.8	3.2	4.2	3.4	6.3	5.3	5.5	6.5
SOUTH ATLANTIC	15.2	14.3	14.3	12.4	13.8	17.7	8.7	10.1	12.3	23.6	17.7	19.8	17.4	13.6
EAST SO CENTRAL	5.0	2.5	5.1	3.7	4.0	2.9	3.2	3.6	3.6	3.9	4.6	4.4	3.7	7.1
WEST SO CENTRAL	8.2	7.3	9.9	19.5	11.6	5.5	7.9	8.4	9.2	8.9	7.9	8.2	6.4	9.0
MOUNTAIN	5.2	6.4	3.2	10.8	6.1	4.2	7.1	5.7	5.7	3.0	4.1	3.7	3.7	5.8
PACIFIC & INSULAR	11.2	20.2	7.3	16.7	13.3	11.4	15.9	17.3	15.0	8.4	12.2	10.9	14.7	6.0
FOREIGN	10.4	10.4	4.9	9.3	7.6	8.1	6.3	12.2	9.7	7.4	16.8	13.5	16.5	31.9
REGION UNKNOWN	4.0	3.4	4.1	3.7	3.8	4.9	1.6	4.3	4.1	4.9	1.9	3.0	.5	3.5

1/ Refer to explanatory note on page 22 and the description of doctoral fields inside back cover.

TABLE 2. CONTINUED

DOCTORATES: MEN

LIFE SCIENCES	PSYCHOLOGY	ECONOMICS	ANTHROPOLOGY & SOCIOLOGY	POLIT. SCI., PUBLIC ADMIN., INTERN'L REL.	OTHER SOCIAL SCIENCES	SOCIAL SCIENCES INCL. PSYCHOL.	TOTAL SCIENCES	HISTORY	ENG. AND AMER. LANG. AND LIT.	FOREIGN LANG. AND LIT.	OTHER HUMANITIES	HUMANITIES	PROFESSIONAL FIELDS	EDUCATION	TOTAL NON-SCIENCES	OTHER OR UNSPECIFIED 2/
3886	1824	697	615	626	512	4274	14393	614	480	337	1118	2549	1051	4270	7870	16
76.6	59.2	86.9	60.6	81.7	71.6	67.0	78.9	74.1	52.7	47.9	65.8	61.5	74.3	57.9	60.9	61.5
78.7	91.8	65.0	82.4	76.5	78.1	82.2	74.6	90.2	93.3	82.8	86.1	88.0	77.5	87.3	86.2	
18.4	3.5	32.1	15.1	18.8	18.9	13.9	22.6	7.7	4.2	13.6	8.9	8.4	20.2	9.6	10.6	
2.9	4.7	2.9	2.4	4.6	2.9	3.8	2.9	2.1	2.5	3.6	4.9	3.6	2.3	3.0	3.1	
65.6	57.9	57.8	67.5	66.9	68.2	61.8	62.1	62.7	65.[illegible]	[illegible]2.9	63.0	63.4	75.1	78.3	73.0	
29.4	35.6	35.3	27.3	25.2	27.7	31.9	33.1	32.4	28.8	31.5	29.0	30.1	21.3	17.1	21.9	
4.9	6.5	6.9	5.2	7.8	4.1	6.3	4.9	4.9	5.4	5.6	8.1	6.5	3.6	4.6	5.1	
30.1	30.4	31.1	32.5	33.2	32.8	31.5	30.2	32.9	32.1	33.3	33.1	32.8	34.1	36.1	34.8	
41.3	68.9	60.5	51.5	52.2	27.7	57.7	61.5	63.4	77.1	63.5	52.8	61.3	36.7	35.9	44.3	
62.8	78.3	78.2	95.0	86.6	90.0	81.9	72.7	88.9	85.4	84.3	86.0	86.4	91.7	95.9	92.3	
7.3	7.5	8.3	9.3	10.1	9.4	8.4	7.5	10.2	9.6	10.2	10.3	10.1	10.7	12.4	11.3	
5.7	6.0	5.9	6.9	6.6	6.2	6.2	5.8	7.8	7.3	7.4	7.0	7.3	6.7	6.7	6.9	
46.2	15.4	4.6	11.2	5.9	5.5	10.5	27.1	8.1	3.3	6.2	5.0	5.6	2.9	3.3	4.0	
26.5	9.2	1.9	7.0	2.4	3.7	6.0	13.3	4.2	1.0	3.0	2.0	2.5	.9	1.0	1.5	
12.6	2.9	2.0	2.9	2.1	1.0	2.4	10.7	2.1	.4	1.2	.5	1.0	1.4	.8	.9	
2.2	2.1	.4	.3	.3	.4	1.1	1.2	.0	.0	.0	.3	.1	.0	.9	.5	
4.9	1.2	.3	1.0	1.1	.4	.9	1.9	1.8	1.9	2.1	2.2	2.0	.7	.6	1.1	
47.1	77.0	88.4	80.2	83.2	87.9	81.5	66.2	81.8	88.5	85.2	84.1	84.5	91.4	90.4	88.7	
25.7	31.9	54.5	59.2	55.9	62.1	46.7	30.5	58.3	76.3	68.0	64.9	65.9	68.0	66.7	66.6	
8.6	11.0	12.3	4.7	5.8	9.0	9.3	19.3	4.4	5.2	6.5	4.9	5.1	8.1	4.0	4.9	
9.0	16.5	14.2	8.1	15.2	10.4	14.0	10.5	7.7	1.9	1.8	3.0	3.7	5.2	11.6	8.2	
2.2	12.7	3.4	4.1	4.0	4.5	7.7	3.5	6.0	.6	2.7	7.2	5.1	9.4	4.9	5.6	
1.6	5.0	3.9	4.1	2.4	2.0	3.9	2.3	5.4	4.6	6.2	4.0	4.7	.7	3.2	3.4	
6.7	7.6	7.0	8.6	10.9	6.6	8.0	6.7	10.1	8.1	8.6	10.9	9.9	5.6	6.3	7.4	
38.0	11.4	2.6	6.8	4.0	3.3	7.3	21.3	3.9	2.1	3.3	2.5	2.9	2.1	1.8	2.2	
8.2	4.0	2.0	4.4	1.9	2.1	3.2	5.8	4.2	1.3	3.0	2.5	2.7	.9	1.5	1.8	
34.8	54.4	74.3	57.4	63.1	69.7	61.2	50.6	51.1	56.5	50.4	54.6	53.6	79.8	66.2	63.9	
12.3	22.6	14.1	22.8	20.1	18.2	20.3	15.6	30.6	32.1	34.7	29.5	31.0	11.6	24.2	24.7	
46.6	19.1	31.9	30.9	13.2	19.6	22.4	45.1	5.4	2.6	5.9	5.1	4.8	9.8	5.3	5.9	
27.5	23.5	48.5	53.5	53.4	60.5	42.0	30.4	59.6	75.3	75.3	71.0	69.7	60.8	35.6	49.1	
3.8	5.5	4.1	4.5	16.5	4.8	6.7	4.0	14.3	5.2	4.1	4.6	6.9	8.3	38.3	24.8	
6.6	42.4	4.6	2.5	4.6	5.6	18.8	9.5	4.5	3.3	2.9	5.1	4.3	8.9	10.0	8.3	
4.6	1.6	1.5	2.0	5.1	3.4	2.4	3.0	6.1	3.7	1.2	6.7	5.3	3.9	1.7	3.0	
10.9	7.9	9.5	6.5	7.3	6.2	7.7	8.0	10.2	10.0	10.6	7.5	9.0	7.7	9.1	8.9	
25.0	24.9	39.2	38.2	33.4	40.6	33.0	25.1	26.4	30.3	35.9	27.4	28.8	41.5	15.1	23.2	
17.0	15.5	10.0	14.2	11.4	8.4	12.7	11.7	7.6	3.7	4.1	6.1	5.7	10.1	11.2	9.6	
8.2	10.8	6.6	6.8	9.4	9.8	9.1	8.6	8.3	9.2	5.9	7.9	8.0	7.3	11.0	9.5	
5.8	8.9	4.6	3.1	4.1	4.5	5.9	5.2	4.8	3.7	1.8	6.7	5.1	7.6	9.3	7.9	
1.2	1.4	1.5	.8	.5	1.4	1.2	1.1	1.9	1.5	1.8	5.2	3.3	1.7	1.8	2.2	
32.0	30.7	28.6	30.3	33.9	29.1	30.5	40.2	40.8	41.7	40.0	39.2	40.1	24.1	42.4	38.7	
10.9	7.9	9.5	6.5	7.3	6.2	7.7	8.0	10.2	10.0	10.6	7.5	9.0	7.7	9.1	8.9	
3.2	6.7	8.5	6.8	5.1	3.9	6.5	5.8	9.6	8.1	7.6	5.6	7.3	5.6	5.6	6.0	
9.3	17.9	14.7	16.7	13.4	10.9	15.5	14.7	13.7	16.2	15.9	13.9	14.6	12.0	11.7	12.5	
12.1	16.3	10.8	11.9	12.7	20.7	14.7	13.7	14.3	17.7	17.1	14.4	15.4	15.9	16.3	16.0	
5.8	7.7	3.7	5.7	3.8	6.2	5.8	5.1	6.1	8.9	8.2	8.5	8.0	6.3	9.1	8.3	
16.8	15.1	23.9	13.6	23.8	13.2	17.7	15.1	18.2	15.9	10.0	16.4	15.9	15.4	15.3	15.5	
5.4	4.4	3.1	4.5	5.6	6.2	4.6	4.3	4.5	5.9	4.1	6.6	5.6	5.4	6.3	5.9	
8.3	7.5	4.2	5.9	4.1	5.3	5.8	7.8	7.3	10.0	5.9	8.2	8.1	11.3	8.6	8.9	
4.6	5.0	2.9	5.7	3.0	4.5	4.3	5.0	5.1	4.4	4.7	2.8	3.9	5.2	6.1	5.4	
9.5	11.8	8.5	10.5	11.9	11.2	10.9	12.5	8.6	4.4	11.2	11.1	9.2	9.1	9.6	9.4	
21.6	3.0	17.0	15.3	10.9	13.7	10.1	12.1	7.6	4.4	9.4	8.2	7.5	11.2	7.2	8.0	
2.8	4.5	2.7	3.4	5.8	4.2	4.2	3.9	5.1	4.1	5.9	4.3	4.6	3.3	4.2	4.1	

2/ Statistics are not presented because too few records contained the specified data.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 2
STATISTICAL PROFILE OF DOCTORATE RECIPIENTS BY FIELD OF DOCTORATE, FY 1979 1/

DOCTORATES: WOMEN

	FY 1979 TOTAL	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH, ENVIRONM. AND MARINE SCIENCES	PHYSICAL SCIENCES	MATHEMATICS	COMPUTER SCIENCES	ENGINEERING	EMP FIELDS	BASIC MEDICAL SCIENCES	OTHER BIOSCIENCES	BIOSCIENCES	MEDICAL SCIENCES	AGRICULTURAL SCIENCES
TOTAL FEMALE	8921	73	220	58	351	118	27	63	559	511	378	889	210	91
FEMALE AS A PERCENT OF TOTAL DOCTORATES	28.6	6.6	14.0	9.0	10.6	15.4	12.9	2.5	8.2	27.3	26.2	26.8	28.0	9.0
U.S. CITIZENSHIP %	87.9	60.3	77.3	86.2	75.2	77.1	96.3	60.3	75.0	85.1	84.4	84.8	86.2	63.7
FOREIGN CITIZENSHIP %	9.0	34.2	21.8	12.1	22.8	22.0	3.7	36.5	23.3	13.3	12.2	12.8	11.4	34.1
UNKNOWN %	3.1	5.5	.9	1.7	2.0	.8	.0	3.2	1.8	1.6	3.4	2.4	2.4	2.2
MARRIED %	53.0	49.3	52.7	44.8	50.7	50.8	55.6	54.0	51.3	53.4	51.3	52.5	50.5	60.4
NOT MARRIED %	42.7	45.2	44.5	51.7	45.9	46.6	44.4	44.4	45.8	44.0	44.4	44.2	46.2	37.4
UNKNOWN %	4.4	5.5	2.7	3.4	3.4	2.5	.0	1.6	2.9	2.5	4.2	3.3	3.3	2.2
MEDIAN AGE AT DOCTORATE	33.1	29.2	28.2	29.1	28.6	29.1	30.7	29.4	28.9	29.2	29.9	29.4	32.7	29.1
PERCENT WITH BACC IN SAME FIELD AS DOCTORATE	50.1	75.3	87.3	51.7	78.9	83.9	3.7	36.5	71.6	18.2	68.0	39.4	39.0	34.1
PERCENT WITH MASTERS	85.0	68.5	48.6	74.1	57.0	86.4	77.8	92.1	68.2	44.8	62.2	52.2	76.7	89.0
MEDIAN TIME LAPSE FROM BACC TO DOCT														
TOTAL TIME YRS	10.3	7.3	6.3	7.1	6.6	7.2	8.6	6.9	6.9	7.0	7.7	7.2	9.5	6.8
REGISTERED TIME YRS	6.4	6.0	5.4	5.7	5.6	6.2	6.8	5.4	5.8	5.6	6.2	5.8	6.0	5.2
POSTDOCTORAL STUDY PLANS %	15.0	42.5	45.5	34.5	43.0	10.2	.0	14.3	30.8	73.8	52.6	64.8	32.4	29.7
FELLOWSHIP	8.2	11.0	20.0	12.1	16.8	5.9	.0	6.3	12.5	51.1	29.6	42.0	24.3	8.8
RESEARCH ASSOC	4.3	30.1	22.7	20.7	23.9	2.5	.0	6.3	16.3	17.2	17.7	17.4	5.2	18.7
TRAINEESHIP	1.0	1.4	.5	.0	.6	.8	.0	1.6	.7	2.9	1.9	2.5	.5	1.1
OTHER	1.5	.0	2.3	1.7	1.7	.8	.0	.0	1.3	2.5	3.4	2.9	2.4	1.1
PLANNED EMPLOYMENT AFTER DOCTORATE %	77.3	42.5	50.5	53.4	49.3	81.4	96.3	82.5	62.1	21.7	40.2	29.6	61.0	64.8
EDUC INSTITUTION	52.9	20.5	14.5	27.6	17.9	55.9	55.6	33.3	29.5	12.7	27.0	18.8	38.1	37.4
INDUSTRY/BUSINESS	6.6	12.3	26.4	17.2	21.9	12.7	29.6	34.9	21.8	5.1	2.6	4.0	6.7	13.2
GOVERNMENT	7.3	5.5	4.1	5.2	4.6	5.9	7.4	11.1	5.7	1.8	5.8	3.5	7.6	6.6
NONPROFIT	5.1	1.4	.9	1.7	1.1	2.5	3.7	3.2	1.8	1.0	1.9	1.3	4.3	1.1
OTHER & UNKNOWN	5.4	2.7	4.5	1.7	3.7	4.2	.0	.0	3.2	1.2	2.9	1.9	4.3	6.6
POSTDOCT STATUS UNKN %	7.7	15.1	4.1	12.1	7.7	8.5	3.7	3.2	7.2	4.5	7.1	5.6	6.7	5.5
DEFINITE POSTDOCTORAL STUDY	10.8	32.9	31.8	20.7	30.2	5.9	.0	6.3	20.9	63.2	40.7	53.7	26.2	23.1
SEEKING POSTDOCTORAL STUDY	4.3	9.6	13.6	13.8	12.8	4.2	.0	7.9	9.8	10.6	11.9	11.1	6.2	6.6
DEFINITE EMPLOYMENT	51.2	28.8	36.4	39.7	35.3	63.6	81.5	69.8	47.4	13.7	24.1	18.1	40.5	33.0
SEEKING EMPLOYMENT	26.0	13.7	14.1	13.8	14.0	17.8	14.8	12.7	14.7	8.0	16.1	11.5	20.5	31.9
EMPLOYMENT ACTIVITY AFTER DOCTORATE %														
PRIMARY ACTIVITY														
R & D	14.2	47.6	56.3	34.8	50.8	42.7	54.5	63.6	50.9	38.6	34.1	36.0	34.1	60.0
TEACHING	50.2	33.3	27.5	34.8	29.8	50.7	31.8	18.2	34.0	41.4	40.7	41.0	38.8	33.3
ADMINISTRATION	13.3	.0	2.5	4.3	2.4	.0	4.5	2.3	1.9	5.7	6.6	6.2	14.1	.0
PROF. SERVICES	12.8	4.8	3.8	.0	3.2	2.7	.0	9.1	3.8	1.4	8.8	5.6	4.7	.0
OTHER	2.8	9.5	1.3	13.0	4.8	2.7	9.1	2.3	4.2	.0	4.4	2.5	1.2	3.3
ACTIVITY UNKNOWN	6.8	4.8	8.8	13.0	8.9	1.3	.0	4.5	5.3	12.9	5.5	8.7	7.1	3.3
SECONDARY ACTIVITY														
R & D	28.3	28.6	17.5	34.8	22.6	41.3	27.3	25.0	28.7	30.0	30.8	30.4	28.2	30.0
TEACHING	10.8	4.8	1.3	17.4	4.8	17.3	22.7	13.6	11.3	11.4	22.0	17.4	20.0	26.7
ADMINISTRATION	8.7	.0	8.8	.0	5.6	5.3	13.6	4.5	6.0	8.6	5.5	6.8	4.7	10.0
PROF. SERVICES	7.0	4.8	3.8	4.3	4.0	4.0	4.5	4.5	4.2	5.7	3.3	4.3	7.1	3.3
OTHER	3.0	.0	.0	.0	.0	1.3	.0	2.3	.8	.0	1.1	.6	2.4	.0
NO SECONDARY ACTIVITY	35.4	57.1	60.0	30.4	54.0	29.3	31.8	45.5	43.8	31.4	31.9	31.7	30.6	26.7
UNKNOWN	6.8	4.8	8.8	13.0	8.9	1.3	.0	4.5	5.3	12.9	5.5	8.7	7.1	3.3
REGION OF EMPLOYMENT AFTER DOCTORATE %														
NEW ENGLAND	7.3	9.5	2.5	13.0	5.6	10.7	.0	.0	5.7	4.3	7.7	6.2	8.2	6.7
MIDDLE ATLANTIC	16.5	19.0	28.8	21.7	25.8	18.7	36.4	15.9	23.0	24.3	11.0	16.8	18.8	6.7
EAST NO CENTRAL	14.7	4.8	12.5	4.3	9.7	16.0	9.1	22.7	13.6	17.1	13.2	14.9	14.1	13.3
WEST NO CENTRAL	7.0	4.8	6.3	.0	4.8	4.0	.0	2.3	3.8	5.7	4.4	5.0	4.7	16.7
SOUTH ATLANTIC	17.7	19.0	16.3	8.7	15.3	18.7	9.1	6.8	14.3	17.1	26.4	22.4	16.5	13.3
EAST SO CENTRAL	5.0	.0	3.8	4.3	3.2	4.0	9.1	4.5	4.2	1.4	3.3	2.5	2.4	6.7
WEST SO CENTRAL	7.6	14.3	8.8	26.1	12.9	5.3	9.1	4.5	9.1	8.6	4.4	6.2	11.8	3.3
MOUNTAIN	4.4	.0	1.3	.0	.8	5.3	4.5	6.8	3.4	.0	5.5	3.1	4.7	.0
PACIFIC & INSULAR	10.6	9.5	8.8	4.3	8.1	12.0	22.7	22.7	12.8	10.0	11.0	10.6	9.4	20.0
FOREIGN	5.0	19.0	5.0	8.7	8.1	4.0	.0	9.1	6.4	8.6	11.0	9.9	5.9	13.3
REGION UNKNOWN	4.3	.0	6.3	8.7	5.6	1.3	.0	4.5	3.8	2.9	2.2	2.5	3.5	.0

1/ Refer to explanatory note on page 22 and the description of doctoral field groupings inside back cover.

TABLE 2. CONTINUED

DOCTORATES: WOMEN

LIFE SCIENCES	PSYCHOLOGY	ECONOMICS	ANTHROPOLOGY & SOCIOLOGY	POLIT. SCI., PUBLIC ADMIN., INTERN'L REL.	OTHER SOCIAL SCIENCES	SOCIAL SCIENCES INCL. PSYCHOL.	TOTAL SCIENCES	HISTORY	ENG. AND AMER. LANG. AND LIT.	FOREIGN LANG. AND LIT.	OTHER HUMANITIES	HUMANITIES	PROFESSIONAL FIELDS	EDUCATION	TOTAL NON-SCIENCES	OTHER OR UNSPECIFIED[2]
1190	1257	105	400	140	203	2105	3854	215	431	367	581	1594	363	3100	5057	10
23.4	40.8	13.1	39.4	18.3	28.4	33.0	21.1	25.9	47.3	52.1	34.2	38.5	25.7	42.1	39.1	38.5
83.4	90.2	71.4	88.8	89.3	89.2	88.8	85.2	93.0	95.4	81.2	86.1	88.4	90.4	90.8	90.0	
14.2	4.1	27.6	9.8	8.6	7.4	6.9	11.5	4.7	3.2	15.3	10.5	8.8	7.4	5.9	7.0	
2.4	5.7	1.0	1.5	2.1	3.4	4.2	3.3	2.3	1.4	3.5	3.4	2.8	2.2	3.3	3.0	
52.8	45.6	53.3	51.3	57.1	51.7	48.4	50.2	58.1	51.5	53.1	49.4	52.0	52.6	57.0	55.1	
44.0	47.7	40.0	46.3	39.3	42.4	45.9	45.3	38.1	43.6	41.4	46.1	43.3	44.4	38.8	40.6	
3.2	6.8	6.7	2.5	3.6	5.9	5.7	4.5	3.7	4.9	5.4	4.5	4.7	3.0	4.2	4.3	
29.8	30.7	30.7	34.0	33.2	32.2	31.5	30.5	33.3	33.5	33.5	33.1	33.3	34.1	37.1	35.5	
38.9	59.7	53.3	53.3	55.7	16.7	53.7	51.7	68.8	76.3	73.3	47.0	63.9	39.7	42.2	48.9	
59.3	79.8	77.1	87.3	87.9	92.1	82.8	73.4	88.8	91.9	89.4	86.7	89.0	97.0	95.7	93.7	
7.5	8.0	8.4	10.5	10.3	9.9	8.7	8.0	10.5	10.9	10.6	10.7	10.7	10.5	13.3	12.1	
5.8	6.0	6.1	7.4	6.8	5.8	6.3	6.0	8.2	7.8	7.9	7.4	7.8	5.9	6.5	6.8	
56.4	15.8	8.6	10.5	4.3	5.4	12.6	28.8	8.4	3.0	7.4	7.9	6.5	3.9	3.6	4.6	
36.3	7.5	3.8	6.0	.7	2.0	6.0	16.3	2.8	1.4	4.6	5.0	3.6	2.2	1.1	2.0	
15.4	3.3	3.8	3.0	1.4	1.5	2.9	8.7	2.8	.0	.8	1.4	1.1	1.4	.9	1.0	
2.0	2.9	.0	.0	.0	.0	1.8	1.7	.0	.5	.0	.5	.3	.3	.7	.5	
2.7	2.1	1.0	1.5	2.1	2.0	1.9	2.0	2.8	1.2	1.9	1.0	1.5	.0	1.0	1.1	
37.8	75.6	82.9	83.8	87.1	86.7	79.3	64.0	80.5	85.8	81.5	82.4	82.9	90.1	89.4	87.4	
23.6	32.6	48.6	59.5	57.9	61.6	43.0	35.1	59.1	71.5	63.2	64.2	65.2	68.6	67.0	66.5	
5.2	10.3	7.6	5.3	5.0	8.4	8.6	9.5	5.1	5.6	5.2	5.3	5.3	4.7	3.8	4.3	
4.5	13.0	16.2	6.8	12.1	4.4	11.1	8.3	3.7	1.6	2.5	1.7	2.1	7.2	8.7	6.5	
1.8	13.6	1.9	6.5	5.7	5.9	10.4	6.5	3.3	.9	1.1	3.8	2.3	7.2	4.5	4.0	
2.7	6.1	8.6	5.8	6.4	6.4	6.2	4.7	9.3	6.3	9.5	7.4	7.8	2.5	5.4	6.0	
5.8	8.7	8.6	5.8	8.6	7.9	8.0	7.2	11.2	11.1	11.2	9.6	10.6	6.1	7.0	8.1	
46.5	10.8	6.7	6.5	.7	3.4	8.4	22.0	3.7	1.6	3.5	4.0	3.2	2.5	1.7	2.2	
9.9	4.9	1.9	4.0	3.6	2.0	4.2	6.8	4.7	1.4	3.8	4.0	3.3	1.4	1.9	2.3	
23.2	49.4	63.8	57.5	60.7	60.1	53.4	43.2	43.7	49.9	40.3	50.8	47.2	68.3	61.2	57.3	
14.6	26.2	19.0	26.3	26.4	26.6	25.9	20.8	36.7	36.0	41.1	31.7	35.7	21.8	28.2	30.1	
38.0	14.5	38.8	22.2	11.8	20.5	18.0	26.5	10.6	2.3	4.1	6.8	5.5	12.1	7.1	7.1	
39.5	26.9	52.2	66.1	54.1	62.3	42.3	40.5	66.0	79.1	79.1	79.7	77.7	59.3	46.5	55.7	
8.0	6.0	.0	4.3	14.1	3.3	5.6	5.4	7.4	4.7	4.1	2.4	4.0	9.3	24.4	17.8	
4.7	47.7	.0	2.6	7.1	3.3	27.7	20.1	1.1	3.3	.7	1.0	1.6	10.1	11.2	8.6	
2.2	1.0	3.0	1.7	4.7	3.3	1.8	2.2	9.6	4.7	4.1	4.1	4.9	2.8	2.4	3.1	
7.6	4.0	6.0	3.0	8.2	7.4	4.6	5.2	5.3	6.0	8.1	6.1	6.4	6.5	8.4	7.7	
29.7	26.1	44.8	45.7	30.6	42.6	33.3	32.0	30.9	34.4	43.2	38.0	37.1	44.4	19.3	26.1	
19.2	15.0	6.0	8.7	5.9	6.6	11.6	12.8	2.1	5.1	2.0	5.4	4.3	11.3	11.7	9.7	
6.5	9.8	4.5	6.5	11.8	7.4	8.7	7.9	6.4	6.5	4.1	7.5	6.4	5.6	10.8	9.2	
5.1	8.9	.0	3.5	2.4	5.7	6.4	5.8	1.1	3.3	2.0	3.1	2.7	8.5	9.5	7.6	
1.1	3.7	3.0	1.3	1.2	2.5	2.8	2.2	4.3	2.8	2.0	8.8	5.2	1.2	3.0	3.4	
30.8	32.5	35.8	31.3	40.0	27.9	32.5	34.0	50.0	41.9	38.5	31.2	38.0	22.6	37.3	36.2	
7.6	4.0	6.0	3.0	8.2	7.4	4.6	5.2	5.3	6.0	8.1	6.1	6.4	6.5	8.4	7.7	
6.9	8.2	11.9	6.5	16.5	4.9	8.4	7.7	8.5	8.4	15.5	10.5	10.6	4.8	6.0	7.1	
16.3	22.7	14.9	20.0	10.6	18.0	20.3	20.0	24.5	23.7	16.2	14.2	18.6	14.9	12.8	14.5	
14.5	15.9	11.9	16.1	12.9	20.5	16.0	15.4	17.0	16.3	13.5	12.5	14.4	15.3	14.1	14.3	
6.2	6.6	4.5	4.3	4.7	4.9	5.7	5.5	7.4	8.8	4.7	7.5	7.3	9.7	7.9	7.9	
19.6	12.9	26.9	15.2	23.5	17.2	15.5	16.0	16.0	18.6	16.2	17.3	17.3	15.3	19.7	18.7	
2.9	4.0	1.5	3.5	8.2	3.3	4.0	3.8	2.1	5.6	4.1	5.8	4.9	4.8	6.0	5.6	
7.6	5.5	1.5	5.7	3.5	5.7	5.2	6.2	7.4	7.4	4.7	2.0	4.8	8.9	9.8	8.4	
3.3	5.0	4.5	6.1	2.4	2.5	4.7	4.3	1.1	2.3	5.4	3.4	3.2	3.2	5.1	4.4	
11.2	11.8	7.5	14.3	10.6	9.0	11.6	11.8	8.5	4.2	10.1	13.9	9.7	13.7	9.5	9.9	
9.1	2.3	13.4	5.2	4.7	9.0	4.4	5.5	4.3	2.3	6.1	8.8	5.9	4.8	4.2	4.7	
2.5	5.2	1.5	3.0	2.4	4.9	4.3	3.9	3.2	2.3	3.4	4.1	3.3	4.4	5.1	4.6	

2/ Statistics are not presented because too few records contained the specified data.

SOURCE: NRC, Commission on Human Resources, Docotrate Records File.

TABLE 3
PERCENTAGE OF FY 1979 DOCTORATE RECIPIENTS BY SOURCES OF SUPPORT IN GRADUATE SCHOOL, BY SEX AND SUMMARY FIELD [1]

SOURCES OF SUPPORT IN GRADUATE SCHOOL		DOCTORATE RECIPIENTS BY FIELD																	
		PHYSICAL [2] SCIENCES		ENGI-NEERING		LIFE SCIENCES		SOCIAL SCIENCES		HUMANITIES		PROF. FIELDS		EDUCATION		TOTAL	
		MEN/	WOMEN	MEN/	WOMEN	MEN/	WOMEN	MEN/	WOMEN	MEN/	WOMEN	MEN/	WOMEN	MEN/	WOMEN	MEN/	WOMEN
NSF FELLOWSHIP	N	225/	36	92/	2	99/	44	103/	70	14/	11	2/	0	32/	15	567/	178
	V%	6.2/	7.6	4.0/	3.3	2.7/	3.9	2.6/	3.5	.6/	.7	.2/	.0	.8/	.5	2.7/	2.1
	H%	39.7/	20.2	16.2/	1.1	17.5/	24.7	18.2/	39.3	2.5/	6.2	.4/	.0	5.6/	8.4	100.0/	100.0
NSF TRAINEESHIP	N	87/	6	47/	0	49/	19	50/	22	2/	1	2/	0	9/	4	246/	52
	V%	2.4/	1.3	2.0/	.0	1.3/	1.7	1.3/	1.1	.1/	.1	.2/	.0	.2/	.1	1.2/	.6
	H%	35.4/	11.5	19.1/	.0	19.9/	36.5	20.3/	42.3	.8/	1.9	.8/	.0	3.7/	7.7	100.0/	100.0
NIH FELLOWSHIP [3]	N	24/	4	8/	0	169/	54	139/	83	1/	2	9/	7	4/	13	354/	163
	V%	.7/	.8	.3/	.0	4.6/	4.8	3.5/	4.2	.0/	.1	.9/	2.0	.1/	.4	1.7/	1.9
	H%	6.8/	2.5	2.3/	.0	47.7/	33.1	39.3/	50.9	.3/	1.2	2.5/	4.3	1.1/	8.0	100.0/	100.0
NIH TRAINEESHIP [3]	N	67/	14	40/	1	658/	282	247/	166	2/	4	12/	9	2/	21	1028/	497
	V%	1.8/	2.9	1.7/	1.6	17.9/	24.9	6.2/	8.4	.1/	.3	1.2/	2.6	.0/	.7	4.9/	5.9
	H%	6.5/	2.8	3.9/	.2	64.0/	56.7	24.0/	33.4	.2/	.8	1.2/	1.8	.2/	4.2	100.0/	100.0
NDEA FELLOWSHIP	N	51/	5	16/	0	31/	9	121/	61	203/	138	17/	3	45/	32	484/	248
	V%	1.4/	1.1	.7/	.0	.8/	.8	3.0/	3.1	8.6/	9.1	1.7/	.9	1.1/	1.1	2.3/	2.9
	H%	10.5/	2.0	3.3/	.0	6.4/	3.6	25.0/	24.6	41.9/	55.6	3.5/	1.2	9.3/	12.9	100.0/	100.0
NATIONAL DIRECT STUDENT LOANS	N	136/	9	73/	1	255/	62	542/	255	371/	181	76/	29	346/	221	1799/	758
	V%	3.7/	1.9	3.1/	1.6	6.9/	5.5	13.6/	12.9	15.6/	12.0	7.6/	8.5	8.5/	7.5	8.5/	9.0
	H%	7.6/	1.2	4.1/	.1	14.2/	8.2	30.1/	33.6	20.6/	23.9	4.2/	3.8	19.2/	29.2	100.0/	100.0
OTHER HEW	N	24/	3	23/	2	87/	57	216/	207	8/	17	33/	43	152/	152	543/	481
	V%	.7/	.6	1.0/	3.3	2.4/	5.0	5.4/	10.5	.3/	1.1	3.3/	12.6	3.8/	5.2	2.6/	5.7
	H%	4.4/	.6	4.2/	.4	16.0/	11.9	39.8/	43.0	1.5/	3.5	6.1/	8.9	28.0/	31.6	100.0/	100.0
GI BILL	N	277/	3	142/	0	378/	6	468/	14	273/	3	184/	1	628/	26	2350/	53
	V%	7.6/	.6	6.1/	.0	10.3/	.5	11.8/	.7	11.5/	.2	18.3/	.3	15.5/	.9	11.2/	.6
	H%	11.8/	5.7	6.0/	.0	16.1/	11.3	19.9/	26.4	11.6/	5.7	7.8/	1.9	26.7/	49.1	100.0/	100.0
OTHER FEDERAL [4] SUPPORT	N	179/	13	171/	3	202/	54	323/	145	92/	50	36/	22	102/	79	1105/	366
	V%	4.9/	2.7	7.4/	4.9	5.5/	4.8	8.1/	7.3	3.9/	3.3	3.6/	6.4	2.5/	2.7	5.2/	4.3
	H%	16.2/	3.6	15.5/	.8	18.3/	14.8	29.2/	39.6	8.3/	13.7	3.3/	6.0	9.2/	21.6	100.0/	100.0
OTHER NATIONAL [5] FELLOWSHIP	N	51/	16	27/	4	57/	30	146/	79	158/	151	10/	15	51/	42	500/	337
	V%	1.4/	3.4	1.2/	6.6	1.5/	2.7	3.7/	4.0	6.7/	10.0	1.0/	4.4	1.3/	1.4	2.4/	4.0
	H%	10.2/	4.7	5.4/	1.2	11.4/	8.9	29.2/	23.4	31.6/	44.8	2.0/	4.5	10.2/	12.5	100.0/	100.0
UNIVERSITY FELLOWSHIP	N	734/	104	345/	17	531/	223	870/	440	752/	507	190/	52	335/	253	3757/	1596
	V%	20.1/	21.9	14.8/	27.9	14.4/	19.7	21.9/	22.2	31.7/	33.5	18.9/	15.2	8.3/	8.6	17.8/	18.9
	H%	19.5/	6.5	9.2/	1.1	14.1/	14.0	23.2/	27.6	20.0/	31.8	5.1/	3.3	8.9/	15.9	100.0/	100.0
TEACHING ASSISTANTSHIP	N	2512/	363	878/	31	1434/	482	2093/	563	1466/	969	423/	131	927/	762	9733/	3701
	V%	68.9/	76.4	37.8/	50.8	38.9/	42.6	52.6/	48.7	61.8/	64.0	42.0/	38.3	22.9/	26.0	46.2/	43.9
	H%	25.8/	9.8	9.0/	.8	14.7/	13.0	21.5/	26.0	15.1/	26.2	4.3/	3.5	9.5/	20.6	100.0/	100.0
RESEARCH ASSISTANTSHIP	N	2436/	284	1596/	38	1821/	454	1442/	684	284/	194	228/	92	643/	445	8450/	2191
	V%	66.8/	59.8	68.7/	62.3	49.4/	40.1	36.3/	34.6	12.0/	12.8	22.7/	26.9	15.9/	15.2	40.1/	26.0
	H%	28.8/	13.0	18.9/	1.7	21.6/	20.7	17.1/	31.2	3.4/	8.9	2.7/	4.2	7.6/	20.3	100.0/	100.0
EDUC. FUNDS OF INDUSTRY	N	175/	26	204/	10	78/	21	54/	29	23/	14	69/	12	74/	61	677/	173
	V%	4.8/	5.5	8.8/	16.4	2.1/	1.9	1.4/	1.5	1.0/	.9	6.9/	3.5	1.8/	2.1	3.2/	2.1
	H%	25.8/	15.0	30.1/	5.8	11.5/	12.1	8.0/	16.8	3.4/	8.1	10.2/	6.9	10.9/	35.3	100.0/	100.0
OTHER INSTITUTION FUNDS	N	139/	25	89/	2	240/	101	328/	192	251/	145	88/	37	341/	286	1476/	788
	V%	3.8/	5.3	3.8/	3.3	6.5/	8.9	8.2/	9.7	10.6/	9.6	8.7/	10.8	8.4/	9.7	7.0/	9.3
	H%	9.4/	3.2	6.0/	.3	16.3/	12.8	22.2/	24.4	17.0/	18.4	6.0/	4.7	23.1/	36.3	100.0/	100.0
OWN EARNINGS	N	930/	130	754/	15	1133/	344	2185/	1142	1438/	853	635/	209	3078/	2156	10153/	4849
	V%	25.5/	27.4	32.4/	24.6	30.7/	30.4	55.0/	57.7	60.6/	56.4	63.1/	61.1	76.0/	73.5	48.2/	57.5
	H%	9.2/	2.7	7.4/	.3	11.2/	7.1	21.5/	23.6	14.2/	17.6	6.3/	4.3	30.3/	44.5	100.0/	100.0
SPOUSE'S EARNINGS	N	846/	103	446/	11	1130/	291	1228/	608	844/	541	328/	111	1241/	1084	6063/	2749
	V%	23.2/	21.7	19.2/	18.0	30.7/	25.7	30.9/	30.7	35.6/	35.8	32.6/	32.5	30.6/	36.9	28.8/	32.6
	H%	14.0/	3.7	7.4/	.4	18.6/	10.6	20.3/	22.1	13.9/	19.7	5.4/	4.0	20.5/	39.4	100.0/	100.0
FAMILY CONTRIBUTIONS	N	369/	69	294/	8	500/	190	657/	399	508/	334	118/	51	390/	352	2836/	1403
	V%	10.1/	14.5	12.7/	13.1	13.6/	16.8	16.5/	20.2	21.4/	22.1	11.7/	14.9	9.6/	12.0	13.5/	16.6
	H%	13.0/	4.9	10.4/	.6	17.6/	13.5	23.2/	28.4	17.9/	23.8	4.2/	3.6	13.8/	25.1	100.0/	100.0
OTHER LOANS	N	176/	22	118/	4	251/	80	510/	292	301/	182	126/	41	403/	293	1885/	914
	V%	4.8/	4.6	5.1/	6.6	6.8/	7.1	12.8/	14.8	12.7/	12.0	12.5/	12.0	10.0/	10.0	9.0/	10.8
	H%	9.3/	2.4	6.3/	.4	13.3/	8.8	27.1/	31.9	16.0/	19.9	6.7/	4.5	21.4/	32.1	100.0/	100.0
OTHER	N	199/	32	219/	6	358/	72	258/	136	167/	118	109/	22	258/	178	1568/	564
	V%	5.5/	6.7	9.4/	9.8	9.7/	6.4	6.5/	6.9	7.0/	7.8	10.8/	6.4	6.4/	6.1	7.4/	6.7
	H%	12.7/	5.7	14.0/	1.1	22.8/	12.8	16.5/	24.1	10.7/	20.9	7.0/	3.9	16.5/	31.6	100.0/	100.0
UNDUPLICATED TOTAL	N	3645/	475	2324/	61	3686/	1132	3976/	1979	2372/	1513	1006/	342	4049/	2934	21058/	8436 [6]

1/ Data are not comparable with data prior to 1977 because of a change in the survey question on source of support. Frequencies as reported are not reliable but relative frequencies should serve as useful approximations.
2/ Includes mathematics and computer sciences.
3/ The sources NIH Fellowship and NIH Traineeship refer to support provided under the National Research Service Awards Act of 1974.
4/ Includes AEC/ERDA Fellowship and NASA Traineeship which were formerly shown separately.
5/ Includes Woodrow Wilson Fellowship which was formerly shown separately.
6/ The 26 individuals shown in Table 1 as having subfield "Other and Unsepcified" are omitted from this table.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 4
NUMBER OF DOCTORATE RECIPIENTS BY SEX, STATE OF DOCTORAL INSTITUTION, AND SUMMARY FIELD, FY 1979 1/

STATE OF DOCTORAL INSTITUTION	NUMBER OF DOCTORATE RECIPIENTS BY FIELD																	
	PHYSICAL SCIENCES 2/		ENGINEERING		LIFE SCIENCES		SOCIAL SCIENCES		HUMANITIES		PROF. FIELDS		EDUCATION		OTHER & UNSPEC.		TOTAL	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
U.S. TOTAL	3802	496	2431	63	3886	1190	4274	2105	2549	1594	1051	363	4270	3100	16	10	22279	8921
ALABAMA	14	6	12	1	38	5	20	12	3	6	8	2	77	62	0	0	172	94
ALASKA	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5	0
ARIZONA	56	1	21	0	42	11	44	23	19	18	17	0	72	68	0	0	271	121
ARKANSAS	6	1	3	0	12	2	9	6	4	3	15	3	18	11	0	0	67	26
CALIFORNIA	577	73	418	10	404	153	582	297	273	151	98	33	252	196	1	0	2605	913
COLORADO	71	7	54	0	74	11	67	43	31	24	14	6	158	74	1	0	470	165
CONNECTICUT	74	3	12	1	54	28	75	27	98	59	2	1	38	20	0	0	353	139
DELAWARE	9	0	10	0	7	0	13	5	7	4	0	0	0	2	0	0	46	11
D. C.	39	11	14	0	41	40	97	39	53	36	34	7	56	33	0	0	334	166
FLORIDA	86	11	37	1	107	25	169	65	40	29	24	11	336	248	0	0	799	390
GEORGIA	48	3	26	0	59	20	80	36	28	25	27	5	72	78	0	0	340	167
HAWAII	15	2	2	0	24	2	35	18	14	7	0	0	2	1	0	0	92	30
IDAHO	4	1	5	0	24	2	6	1	3	2	0	0	10	6	0	0	52	12
ILLINOIS	239	30	187	5	178	53	247	124	179	97	81	15	237	146	2	2	1350	472
INDIANA	113	15	88	2	145	21	110	47	101	56	42	19	173	112	0	0	772	272
IOWA	76	6	46	3	96	14	56	17	57	21	16	7	83	52	0	2	430	122
KANSAS	25	4	15	2	82	14	40	27	22	19	8	4	73	43	0	0	265	113
KENTUCKY	16	0	13	0	37	6	36	14	16	10	13	1	20	7	0	0	151	38
LOUISIANA	34	3	8	0	58	14	31	8	57	18	46	3	27	23	0	0	261	69
MAINE	1	0	0	0	5	1	2	0	4	0	0	0	3	6	0	0	15	7
MARYLAND	90	10	37	0	82	31	59	53	46	33	12	10	51	67	0	0	377	204
MASSACHUSETTS	293	44	167	4	133	74	237	114	153	86	80	16	179	174	1	0	1243	512
MICHIGAN	116	16	92	2	197	60	169	100	112	67	46	22	239	148	2	0	973	415
MINNESOTA	29	4	39	2	96	17	65	34	34	27	16	10	46	47	0	0	325	141
MISSISSIPPI	2	1	9	1	23	8	31	8	9	2	7	1	67	45	0	0	148	66
MISSOURI	42	10	55	4	88	16	69	45	63	26	14	10	130	76	0	0	461	187
MONTANA	7	1	3	0	10	0	4	5	0	1	0	0	14	5	0	0	38	12
NEBRASKA	21	2	4	1	38	4	27	14	10	6	18	1	29	25	0	0	147	53
NEVADA	5	0	0	0	3	0	3	3	0	1	0	0	5	4	0	0	16	8
NEW HAMPSHIRE	11	3	4	0	17	3	12	7	3	0	0	0	0	0	0	0	47	13
NEW JERSEY	118	13	56	1	67	30	78	40	68	47	14	1	72	50	0	0	473	182
NEW MEXICO	21	3	19	0	14	4	15	4	18	7	0	0	35	13	0	0	122	31
NEW YORK	409	67	193	6	366	151	562	332	308	271	87	36	291	276	3	2	2219	1141
NORTH CAROLINA	78	9	47	0	142	49	107	37	69	40	14	5	68	67	0	0	525	207
NORTH DAKOTA	8	1	0	0	30	3	3	2	7	1	0	0	13	1	0	0	61	8
OHIO	143	22	117	4	119	34	178	102	120	74	42	31	204	127	3	2	926	396
OKLAHOMA	30	4	49	2	55	8	52	14	26	7	15	6	69	55	0	0	296	96
OREGON	51	5	15	0	67	18	51	19	20	15	10	4	62	35	0	1	276	97
PENNSYLVANIA	176	23	160	3	125	72	220	106	125	80	64	25	227	181	3	1	1100	491
RHODE ISLAND	55	12	13	0	16	7	23	8	26	29	0	0	0	0	0	0	133	56
SOUTH CAROLINA	41	8	11	0	32	8	11	8	16	16	6	5	28	33	0	0	145	78
SOUTH DAKOTA	0	0	0	0	5	1	10	4	0	0	0	0	19	6	0	0	34	11
TENNESSEE	35	2	26	0	54	18	78	28	42	16	14	19	119	78	0	0	368	161
TEXAS	208	25	129	3	200	64	162	77	107	59	98	21	260	210	0	0	1164	459
UTAH	35	1	41	0	49	5	67	20	11	3	5	6	98	44	0	0	306	79
VERMONT	6	1	1	0	10	2	2	2	2	1	0	0	0	0	0	0	21	6
VIRGINIA	48	7	60	3	77	17	61	25	33	12	15	7	79	53	0	0	373	124
WASHINGTON	66	9	36	0	112	22	74	35	39	27	16	4	34	23	0	0	377	120
WEST VIRGINIA	6	1	16	0	18	3	11	3	4	0	0	0	41	12	0	0	96	19
WISCONSIN	138	15	59	2	142	39	104	43	67	51	13	6	74	50	0	0	597	206
WYOMING	5	0	2	0	11	0	10	4	0	0	0	0	10	7	0	0	38	11
PUERTO RICO	2	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	4	4

1/ Refer to explanatory note on page 23.
2/ Includes mathematics and computer sciences.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 5
STATISTICAL PROFILE OF DOCTORATE RECIPIENTS BY RACIAL OR ETHNIC GROUP AND U.S. CITIZENSHIP STATUS, FY 1979 1/

		TOTAL				AMER. INDIAN	ASIAN				BLACK			
		U.S.	NON-U.S. PERM.	NON-U.S. TEMP.	TOTAL	TOTAL	U.S.	NON-U.S. PERM.	NON-U.S. TEMP.	TOTAL	U.S.	NON-U.S. PERM.	NON-U.S. TEMP.	TOTAL
TOTAL NUMBER		25369	1314	3574	31200 2/	165	424	673	1457	2593 3/	1050	56	318	1435 3/
MALE	V%	69.1	76.7	86.2	71.4	71.5	72.9	83.7	85.7	83.0	52.2	89.3	89.9	62.1
FEMALE	V%	30.9	23.3	13.8	28.6	28.5	27.1	16.3	14.3	17.0	47.8	10.7	10.1	37.9
DOCTORAL FIELD														
PHYSICAL SCIENCES 5/	V%	12.9	19.9	18.7	13.8	11.5	18.2	24.8	23.0	22.7	4.6	7.1	6.0	5.0
ENGINEERING	V%	5.1	24.5	22.8	8.0	3.0	16.3	35.1	28.1	27.9	1.6	5.4	10.7	3.8
LIFE SCIENCES	V%	16.0	15.6	19.0	16.3	9.1	24.8	18.1	19.4	20.0	5.0	16.1	21.7	9.1
SOCIAL SCIENCES	V%	21.2	14.6	15.4	20.4	21.8	14.9	9.5	13.5	12.6	19.6	25.0	21.4	20.3
ARTS & HUMANITIES	V%	14.4	11.9	5.5	13.3	13.9	10.6	4.0	3.4	4.9	11.3	19.6	5.7	10.4
EDUCATION	V%	25.8	8.9	13.4	23.6	38.8	12.5	4.8	8.8	8.3	53.0	25.0	28.3	46.4
PROFESSIONS & OTHER	V%	4.6	4.5	5.2	4.6	1.8	2.8	3.7	3.8	3.7	5.0	1.8	6.3	5.1
MEDIAN AGE AT DOCTORATE		31.9	32.2	31.8	31.9	34.4	32.7	31.4	31.3	31.4	36.4	36.3	34.0	35.6
MEDIAN TIME LAPSE BA-PHD														
TOTAL TIME		9.2	9.0	8.3	9.0	9.9	9.9	8.8	8.6	8.8	12.2	9.1	7.4	10.3
REGISTERED TIME		6.3	6.3	5.6	6.2	6.3	6.8	6.4	5.9	6.1	6.5	6.1	5.2	6.1
GRADUATE SCHOOL SUPPORT														
FEDERAL FELLOW/TRAINEE	V%	21.3	9.1	6.6	18.5	20.0	23.1	8.2	6.9	9.8	19.0	5.4	6.6	15.6
GI BILL	V%	9.5	.3	.0	7.7	8.5	4.0	.0	.0	.7	8.7	.0	.0	6.3
OTHER FELLOWSHIP	V%	19.6	19.1	19.3	19.0	15.8	19.8	19.9	19.8	19.7	24.0	19.6	18.6	22.6
TEACHING ASSISTANTSHIP	V%	45.2	47.5	37.1	43.1	43.0	42.0	48.0	42.1	43.0	23.8	44.6	28.6	25.6
RESEARCH ASSISTANTSHIP	V%	33.0	51.8	44.0	34.1	27.9	43.6	66.7	55.8	55.9	14.9	25.0	23.3	17.1
EDUC./INST. FUNDS	V%	10.2	8.2	10.0	9.8	15.2	13.4	7.3	10.0	9.7	12.1	8.9	11.0	11.7
OWN/SPOUSE EARNINGS	V%	67.9	53.0	26.5	60.6	73.9	58.5	45.3	21.3	33.4	68.4	67.9	33.0	60.2
FAMILY CONTRIBUTIONS	V%	13.7	15.0	15.6	13.6	14.5	12.0	15.2	18.7	16.5	8.7	8.9	12.6	9.6
NATL DIRECT STDNT LOAN	V%	9.7	4.9	.6	8.2	11.5	10.1	3.3	.5	2.8	14.3	7.1	1.3	11.1
OTHER LOANS	V%	10.0	8.1	4.6	9.0	13.9	6.6	6.1	3.0	4.4	13.5	14.3	5.7	11.7
OTHER	V%	4.3	4.8	27.5	6.8	2.4	4.7	2.8	14.2	9.5	7.4	14.3	41.8	15.3
UNKNOWN	V%	2..	2.7	3.4	5.4	1.8	1.2	1.6	2.5	3.3	2.5	3.6	4.7	3.3
POSTDOCTORAL STUDY PLANS	V%	17.3	22.1	24.5	17.8	12.7	26.9	25.7	32.7	29.4	6.6	16.1	14.5	8.6
PLANNED EMPLOYMENT AFTER DOCTORATE	V%	78.6	72.8	69.1	75.0	84.2	68.2	71.0	61.5	64.4	89.3	69.6	78.3	85.9
EDUC. INSTITUTION	V%	48.9	34.9	41.4	46.0	59.4	32.5	23.6	35.0	31.2	62.6	46.4	45.9	58.2
INDUSTRY/BUSINESS	V%	11.8	28.8	10.9	12.0	8.5	19.1	39.4	14.5	21.6	6.2	8.9	6.0	6.2
GOVERNMENT	V%	9.3	3.8	11.1	9.0	7.9	10.4	4.2	7.1	6.8	13.2	5.4	17.9	13.9
NON-PROFIT	V%	5.0	2.6	2.7	4.5	4.2	3.1	2.1	3.0	2.8	2.9	3.6	3.5	3.0
OTHER & UNKNOWN	V%	3.7	2.7	3.2	3.5	4.2	3.1	1.8	1.9	2.0	4.5	5.4	5.0	4.6
POSTDOCT STATUS UNKNOWN	V%	4.1	5.1	6.3	7.2	3.0	5.0	3.3	5.8	6.2	4.1	14.3	7.2	5.4
DEFINITE POSTDOCT STUDY	V%	13.6	13.5	15.6	13.4	10.3	18.2	16.2	21.6	19.3	3.7	5.4	5.7	4.2
SEEKING POSTDOCT STUDY	V%	3.6	8.6	9.0	4.3	2.4	8.7	9.5	11.1	10.1	2.9	10.7	8.8	4.5
DEFINITE EMPLOYMENT	V%	56.9	47.5	50.4	54.2	59.4	44.6	49.0	44.9	45.4	58.0	35.7	49.7	55.1
SEEKING EMPLOYMENT	V%	21.7	25.3	18.7	20.9	24.8	23.6	22.0	16.6	19.0	31.3	33.9	28.6	30.8
EMPLOYMENT LOCATION AFTER DOCTORATE														
U.S.	V% 6/	94.7	86.1	26.1	87.0	94.9	91.5	89.7	36.7	60.5	92.6	75.0	12.7	76.1
FOREIGN	V% 6/	1.5	7.5	69.2	8.9	3.1	2.1	3.9	57.6	33.5	.5	20.0	80.4	16.9
UNKNOWN	V% 6/	3.9	6.4	4.7	4.1	2.0	6.3	6.4	5.7	6.0	6.9	5.0	7.0	7.0

1/ Data not comparable with data for earlier years because of changes in the survey question on racial/ethnic group. See discussion on page 23.
2/ Includes 943 individuals who did not report their citizenship at time of doctorate.
3/ Includes individuals who did not report their citizenship at time of doctorate.
4/ Includes those who provided no usable response to the item on "racial or ethnic group" and those who used an earlier form which did not contain this item.
5/ Includes mathematics and computer sciences.
6/ The base for this V% is the number of doctorates in the column caption group who have found definite employment.

TABLE 5. CONTINUED

HISPANIC				WHITE				OTHER & UNKNOWN			TOTAL			
U.S.	NON-U.S. PERM.	NON-U.S. TEMP.	TOTAL	U.S.	NON-U.S. PERM.	NON-U.S. TEMP.	TOTAL	U.S.	NON-U.S.	TOTAL	U.S.	NON-U.S. PERM.	NON-U.S. TEMP.	TOTAL
458	77	348	896 [3]	21750	472	1259	23505 [3]	1525	225	2606	[3][4] 25369	1314	3574	31200 [2]
67.0	67.5	89.1	75.6	69.7	66.9	84.5	70.4	72.1	87.1	72.9	69.1	76.7	86.2	71.4
33.0	32.5	10.9	24.4	30.3	33.1	15.5	29.6	27.9	12.9	27.1	30.9	23.3	13.8	28.6
8.1	18.2	15.5	11.7	13.1	15.0	17.5	13.4	16.1	20.0	14.1	12.9	19.9	18.7	13.8
3.3	11.7	17.5	9.6	5.0	15.0	21.8	6.1	7.0	17.3	7.5	5.1	24.5	22.8	8.0
8.7	7.8	33.9	18.6	16.5	13.6	14.1	16.3	16.3	16.0	15.6	16.0	15.6	19.0	16.3
19.7	22.1	14.9	18.1	21.5	19.7	15.5	21.1	20.7	19.1	22.8	21.2	14.6	15.4	20.4
23.4	29.9	3.7	16.3	14.4	18.6	8.7	14.2	14.2	6.2	13.5	14.4	11.9	5.5	13.3
34.7	7.8	12.6	23.5	24.8	11.9	14.8	24.0	21.4	16.9	22.4	25.8	8.9	13.4	23.6
2.2	2.6	1.7	2.1	4.7	6.1	7.5	4.9	4.3	4.4	4.0	4.6	4.5	5.2	4.6
33.8	35.1	32.8	33.5	31.7	32.6	31.6	31.8	31.7	32.3	31.9	31.9	32.2	31.8	31.9
10.0	9.6	8.9	9.4	9.1	9.0	8.2	9.0	8.9	9.2	8.9	9.2	9.0	8.3	9.0
6.5	6.5	5.0	5.9	6.2	6.3	5.6	6.2	6.2	5.7	6.1	6.3	6.3	5.6	6.2
23.1	11.7	11.8	17.4	21.8	11.0	5.2	20.7	15.5	3.6	9.4	21.3	9.1	6.6	18.5
8.3	1.3	.0	4.4	9.9	.6	.0	9.2	5.4	.0	3.2	9.5	.3	.0	7.7
20.1	14.3	14.7	17.2	19.8	19.1	21.0	19.9	13.9	12.9	9.4	19.6	19.1	19.3	19.0
36.2	46.8	22.7	31.5	47.2	48.7	38.8	46.8	35.7	28.0	23.6	45.2	47.5	37.1	43.1
20.7	33.8	29.9	25.4	34.4	38.8	41.1	34.8	27.4	31.6	18.9	33.0	51.8	44.0	34.1
13.8	9.1	13.2	13.1	10.2	9.3	9.4	10.1	6.5	6.2	4.4	10.2	8.2	10.0	9.8
64.4	66.2	20.4	46.8	69.5	60.4	33.1	67.3	48.5	26.2	30.9	67.9	53.0	26.5	60.6
10.3	18.2	9.2	10.4	14.4	15.0	15.5	14.4	9.4	9.8	6.4	13.7	15.0	15.6	13.6
12.2	6.5	.6	7.0	9.6	6.4	.6	9.1	6.8	1.8	4.2	9.7	4.9	.6	8.2
12.2	9.1	4.9	8.9	10.0	10.0	6.1	9.8	6.9	4.9	4.5	10.0	8.1	4.6	9.0
5.5	10.4	53.4	24.6	4.2	5.7	30.8	5.6	3.1	30.7	4.5	4.3	4.8	27.5	6.8
2.8	1.3	2.9	3.8	1.0	3.0	2.5	1.1	24.1	15.6	47.8	2.5	2.7	3.4	5.4
13.3	15.6	14.4	13.7	17.8	19.3	20.6	18.0	15.4	22.7	11.1	17.3	22.1	24.5	17.8
81.7	79.2	78.4	79.4	79.6	75.2	74.6	79.2	58.9	60.0	40.1	78.6	72.8	69.1	75.0
57.4	63.6	48.0	53.7	49.2	44.7	47.7	49.1	34.8	29.8	23.3	48.9	34.9	41.4	46.0
5.9	9.1	6.3	6.4	12.1	20.1	9.5	12.2	10.2	10.2	6.9	11.8	28.8	10.9	12.0
10.7	2.6	18.4	12.8	9.3	3.2	11.4	9.3	6.4	13.3	5.0	9.3	3.8	11.1	9.0
3.5	.0	1.7	2.5	5.3	3.6	2.5	5.1	3.4	1.8	2.1	5.0	2.6	2.7	4.5
4.1	3.9	4.0	4.0	3.6	3.6	3.7	3.6	4.1	4.9	2.8	3.7	2.7	3.2	3.5
5.0	5.2	7.2	6.9	2.6	5.5	4.8	2.8	25.7	17.3	48.8	4.1	5.1	6.3	7.2
8.7	3.9	9.8	8.6	14.3	12.5	12.8	14.2	11.6	14.7	8.1	13.6	13.5	15.6	13.4
4.6	11.7	4.6	5.1	3.5	6.8	7.8	3.8	3.8	8.0	3.0	3.6	8.6	9.0	4.3
55.7	48.1	61.8	56.8	58.1	47.0	54.5	57.7	43.4	44.9	29.6	56.9	47.5	50.4	54.2
26.0	31.2	16.7	22.5	21.5	28.2	20.1	21.5	15.5	15.1	10.5	21.7	25.3	18.7	20.9
93.7	83.8	9.3	57.0	95.0	83.3	24.6	91.3	90.3	30.7	82.3	94.7	86.1	26.1	87.0
2.7	13.5	87.0	39.3	1.4	9.9	71.6	5.2	2.0	64.4	10.4	1.5	7.5	69.2	8.9
3.5	2.7	3.7	3.7	3.5	6.8	3.8	3.6	7.7	5.0	7.4	3.9	6.4	4.7	4.1

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

NSF Form 558 1977
OMB No. 99-R0290
Approval Expires June 30, 1979

SURVEY OF EARNED DOCTORATES

This form is to be returned to the GRADUATE DEAN, for forwarding to ..... Board on Human-Resource Data and Analyses
Commission on Human Resources
National Research Council
2101 Constitution Avenue, Washington, D. C. 20418

Please print or type.

A. Name in full: ..... (9-30)
(Last Name) (First Name) (Middle Name)

Cross Reference: Maiden name or former name legally changed ..... (31)

B. Permanent address through which you could always be reached: (Care of, if applicable) .....

.....
(Number) (Street) (City)

.....
(State) (Zip Code) (Or Country if not U.S.)

C. U.S. Social Security Number: ___ ___ ___ - ___ ___ - ___ ___ ___ ___ (32-40)

D. Date of birth: ..... Place of birth: .....
(41-45) (Month) (Day) (Year) (46-47) (State) (Or Country if not U.S.)

E. Sex: 1 ☐ Male 2 ☐ Female (48)

F. Marital status: 1 ☐ Married 2 ☐ Not married (including widowed, divorced) (49)

G. Citizenship: 0 ☐ U.S. native 2 ☐ Non U.S., Immigrant (Permanent Resident)
1 ☐ U.S. naturalized 3 ☐ Non-U.S., Non-Immigrant (Temporary Resident) (50)
If Non-U.S., indicate country of present citizenship ..... (51-52)

H. Racial or ethnic group: (Check all that apply.) *A person having origins in —*
0 ☐ American Indian or Alaskan Native ..... any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.
1 ☐ Asian or Pacific Islander ..... any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. This area includes, for example, China, Japan, Korea, the Philippine Islands, and Samoa.
2 ☐ Black, not of Hispanic Origin ..... any of the black racial groups of Africa.
3 ☐ White, not of Hispanic Origin ..... any of the original peoples of Europe, North Africa, or the Middle East.
4 ☐ Hispanic ..... Mexican, Puerto Rican, Central or South American, or other Spanish culture or origins, regardless of race. (53-55)

I. Number of dependents: Do not include yourself. (Dependent = someone receiving at least one half of his or her support from you) ..... (56)

J. U.S. veteran status: 0 ☐ Veteran 1 ☐ On active duty 2 ☐ Non-veteran or not applicable (57)

EDUCATION

K. High school last attended: ..... (58-59)
(School Name) (City) (State)

Year of graduation from high school: ..... (60-61)

L. List in the table below all collegiate and graduate institutions you have attended including 2-year colleges. List chronologically, and include your doctoral institution as the last entry.

Institution Name	Location	Years Attended		Major Field		Minor Field	Degree (if any)		
				Use Specialties List			Title of Degree	Granted	
		From	To	Name	Number	Number		Mo.	Yr.

M. Enter below the title of your doctoral dissertation and the most appropriate classification number and field. If a project report or a musical or literary composition (not a dissertation) is a degree requirement, please check box. ☐ (44)

Title .....
.....
.....

Classify using Specialties List
Number Name of field
....

N. Name the department (or interdisciplinary committee, center, institute, etc.) and school or college of the university which supervised your doctoral program: .....
(Department/Institute/Committee/Program) (School)

O. Name of your dissertation adviser: .....
(Last Name) (First Name) (Middle Initial)

continued on next page

SURVEY OF EARNED DOCTORATES, Cont.

P. Please enter a "1" beside your primary source of support during graduate study. Enter a "2" beside your secondary source of support during graduate study. Check all other sources from which support was received.

58 ___ NSF Fellowship
59 ___ NSF Traineeship
60 ___ NIH Fellowship
61 ___ NIH Traineeship
62 ___ NDEA Fellowship
63 ___ Other HEW
64 ___ AEC/ERDA Fellowship
65 ___ NASA Traineeship
66 ___ GI Bill
67 ___ Other Federal support (specify) .....
68 ___ Woodrow Wilson Fellowship
69 ___ Other U.S. national fellowship (specify) .....
70 ___ University Fellowship
71 ___ Teaching Assistantship
72 ___ Research Assistantship
73 ___ Educational fund of industrial or business firm
74 ___ Other institutional funds (specify) .....
75 ___ Own earnings
76 ___ Spouse's earnings
77 ___ Family contributions
78 ___ Loans (NDSL direct)
79 ___ Other loans
80 ___ Other (specify) .....

Q. Please check the space which most fully describes your status during the year immediately preceding the doctorate.

0 ☐ Held fellowship
1 ☐ Held assistantship
2 ☐ Held own research grant
3 ☐ Not employed
4 ☐ Part-time employed

Full-time Employed in: (Other than 0, 1, 2)

5 ☐ College or university, teaching
6 ☐ College or university, non-teaching
7 ☐ Elem. or sec. school, teaching
8 ☐ Elem. or sec. school, non-teaching
9 ☐ Industry or business
(11) ☐ Other (specify) .....
(12) ☐ Any other (specify) ..... (9)

R. How many years (full-time equivalent basis) of professional work experience did you have prior to the doctorate? (include assistantships as professional experience) .....(10-11)

POSTGRADUATION PLANS

S. How well defined are your postgraduation plans?

0 ☐ Have signed contract or made definite commitment
1 ☐ Am negotiating with a specific organization, or more than one
2 ☐ Am seeking appointment but have no specific prospects
3 ☐ Other (specify) ..... (12)

T. What are your immediate postgraduation plans?

0 ☐ Postdoctoral fellowship?
1 ☐ Postdoctoral research associateship?
2 ☐ Traineeship?
3 ☐ Other study (specify) .....
} Go to Item "U"
4 ☐ Employment (other than 0, 1, 2, 3)
5 ☐ Military service?
6 ☐ Other (specify) .....(13)
} Go to Item "V"

U. If you plan to be on a postdoctoral fellowship, associateship, traineeship or other study

What will be the field of your postdoctoral study?
Classify using Specialties List.

Number ..... Field .....(14-16)

What will be the primary source of support?

0 ☐ U.S. Government
1 ☐ College or university
2 ☐ Private foundation
3 ☐ Nonprofit, other than private foundation
4 ☐ Other (specify) .....(17)
6 ☐ Unknown

Go to Item "W"

V. If you plan to be employed, enter military service, or other — What will be the type of employer?

0 ☐ 4-year college or university other than medical school
1 ☐ Medical school
2 ☐ Jr. or community college
3 ☐ Elem. or sec. school
4 ☐ Foreign government
5 ☐ U.S. Federal government
6 ☐ U.S. state government
7 ☐ U.S. local government
8 ☐ Nonprofit organization
9 ☐ Industry or business
(11) ☐ Self-employed
(12) ☐ Other (specify) ..... (18)

Indicate *primary* work activity with "1" in appropriate box; *secondary* work activity (if any) with "2" in appropriate box.

0 ☐ Research and development
1 ☐ Teaching
2 ☐ Administration
3 ☐ Professional services to individuals
5 ☐ Other (specify) ..... (19-20)

In what field will you be working?
Please enter number from Specialties List ..... (21-23)

Go to Item "W"

W. What is the name and address of the organization with which you will be associated?

..... (Name of Organization)

..... (Street) ..... (City, State) ..... (Or Country if not U.S.) (24-29)

BACKGROUND INFORMATION

X. Please indicate, by circling the highest grade attained, the education of

		Elementary school								High school				College				Graduate			
your father:	none	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	MA, MD	PhD	Postdoctoral	(30)
your mother	none	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	MA, MD	PhD	Postdoctoral	(31)
	0	1			2			3		4			5	6			7	8	9	(11)	

Signature ..... Date completed ..... (32-34)

SPECIALTIES LIST

MATHEMATICS

000 Algebra
010 Analysis & Functional Analysis
020 Geometry
030 Logic
040 Number Theory
050 Probability & Math. Statistics (see also 544, 670, 725, 727, 920)
060 Topology
080 Computing Theory & Practice
082 Operations Research (see also 478)
085 Applied Mathematics
098 Mathematics, General
099 Mathematics, Other*

COMPUTER SCIENCES

079 Computer Sciences* (see also 437)

ASTRONOMY

101 Astonomy
102 Astrophysics

PHYSICS

110 Atomic & Molecular
120 Electromagnetism
132 Acoustics
134 Fluids
135 Plasma
136 Optics
138 Thermal
140 Elementary Particles
150 Nuclear Structure
160 Solid State
198 Physics, General
199 Physics, Other*

CHEMISTRY

200 Analytical
210 Inorganic
220 Organic
230 Nuclear
240 Physical
250 Theoretical
260 Agricultural & Food
270 Pharmaceutical
275 Polymer
298 Chemistry, General
299 Chemistry, Other*

EARTH, ENVIRONMENTAL AND MARINE SCIENCES

301 Mineralogy, Petrology
305 Geochemistry
310 Stratigraphy, Sedimentation
320 Paleontology
330 Structural Geology
341 Geophysics (Solid Earth)
350 Geomorph. & Glacial Geology
391 Applied Geol., Geol. Engr. & Econ. Geol.
395 Fuel Tech. & Petrol. Engr. (see also 479)
360 Hydrology & Water Resources
370 Oceanography
397 Marine Sciences, Other*
381 Atmospheric Physics and Chemistry
382 Atmospheric Dynamics
383 Atmospheric Sciences, Other*
388 Environmental Sciences, General (see also 480, 528)
389 Environmental Sciences, Other*
398 Earth Sciences, General
399 Earth Sciences, Other*

ENGINEERING

400 Aeronautical & Astronautical
410 Agricultural
415 Biomedical
420 Civil
430 Chemical
435 Ceramic
437 Computer
440 Electrical
445 Electronics
450 Industrial
455 Nuclear
460 Engineering Mechanics
465 Engineering Physics
470 Mechanical
475 Metallurgy & Phys. Met. Engr.
476 Systems Design & Systems Science
478 Operations Research (see also 082)
479 Fuel Tech. & Petrol. Engr. (see also 395)
480 Sanitary & Environmental
486 Mining
497 Materials Science
498 Engineering, General
499 Engineering, Other*

AGRICULTURAL SCIENCES

500 Agronomy
501 Agricultural Economics
502 Animal Husbandry
503 Food Science & Technology
504 Fish & Wildlife
505 Forestry
506 Horticulture
507 Soils & Soil Science
510 Animal Science & Animal Nutrition
511 Phytopathology
518 Agriculture, General
519 Agriculture, Other*

MEDICAL SCIENCES

522 Public Health & Epidemiology
523 Veterinary Medicine
526 Nursing
527 Parasitology
528 Environmental Health
534 Pathology
536 Pharmacology
537 Pharmacy
538 Medical Sciences, General
539 Medical Sciences, Other*

BIOLOGICAL SCIENCES

540 Biochemistry
542 Biophysics
544 Biometrics & Biostatistics (see also 050, 670, 725, 727, 920)
545 Anatomy
546 Cytology
547 Embryology
548 Immunology
550 Botany
560 Ecology
562 Hydrobiology
564 Microbiology & Bacteriology
566 Physiology, Animal
567 Physiology, Plant
569 Zoology
570 Genetics
571 Entomology
572 Molecular Biology
576 Nutrition and/or Dietetics
578 Biological Sciences, General
579 Biological Sciences, Other*

PSYCHOLOGY

600 Clinical
610 Counseling & Guidance
620 Developmental & Gerontological
630 Educational
635 School Psychology
641 Experimental
642 Comparative
643 Physiological
650 Industrial & Personnel
660 Personality
670 Psychometrics (see also 050, 544, 725, 727, 920)
680 Social
698 Psychology, General
699 Psychology, Other*

SOCIAL SCIENCES

700 Anthropology
708 Communications*
710 Sociology
720 Economics (see also 501)
725 Econometrics (see also 050, 544, 670, 727, 920)
727 Statistics (see also 050, 544, 670, 725, 920)
740 Geography
745 Area Studies*
751 Political Science
752 Public Administration
755 International Relations
770 Urban & Reg. Planning
798 Social Sciences, General
799 Social Sciences, Other*

HUMANITIES

802 History & Criticism of Art
804 History, American
805 History, European
806 History, Other*
807 History & Philosophy of Science
808 American Studies
809 Theatre and Theatre Criticism
830 Music
831 Speech as a Dramatic Art (see also 885)
832 Archeology
833 Religion (see also 881)
834 Philosophy
835 Linguistics
836 Comparative Literature
878 Humanities, General
879 Humanities, Other*

LANGUAGES & LITERATURE

811 American
812 English
821 German
822 Russian
823 French
824 Spanish & Portuguese
826 Italian
827 Classical*
829 Other Languages*

EDUCATION

900 Foundations: Social & Philosoph.
910 Educational Psychology
908 Elementary Educ., General
909 Secondary Educ., General
918 Higher Education
919 Adult Educ. & Extension Educ.
920 Educ. Meas. & Stat.
929 Curriculum & Instruction
930 Educ. Admin. & Superv.
940 Guid., Couns., & Student Pers.
950 Special Education (Gifted, Handicapped, etc.)
960 Audio-Visual Media

TEACHING FIELDS

970 Agriculture Educ.
972 Art Educ.
974 Business Educ.
976 English Educ.
978 Foreign Languages Educ.
980 Home Economics Educ.
982 Industrial Arts Educ.
984 Mathematics Educ.
986 Music Educ.
988 Phys. Ed., Health, & Recreation
989 Reading Education
990 Science Educ.
992 Social Science Educ.
993 Speech Education
994 Vocational Educ.
996 Other Teaching Fields*

998 Education, General
999 Education, Other*

OTHER PROFESSIONAL FIELDS

881 Theology (see also 833)
882 Business Administration
883 Home Economics
884 Journalism
885 Speech & Hearing Sciences (see also 831)
886 Law & Jurisprudence
887 Social Work
891 Library & Archival Science
897 Professional Field, Other*

899 OTHER FIELDS*

* Identify the specific field in the space provided on the questionnaire.

CODE NUMBERS FOR FIELDS DISPLAYED IN TABLE 2

Physics & Astronomy (101-199)
Chemistry (200-299)
Earth Sciences (301-399)

Physical Sciences Subtotal (101-399)
Mathematics (000-060, 080-099)
Computer Sciences (079)
Engineering (400-499)

EMP Total (000-499)

Basic Medical Sciences (540-542, 545-548, 564-566, 572)
Other Biosciences (544, 550-562, 567-571, 576-579)

Biosciences Subtotal (540-579)
Medical Sciences (520-539)
Agricultural Sciences (500-519)

Life Sciences (500-579)

Psychology (600-699)
Economics and Econometrics (720, 725)
Anthropology & Sociology (700, 710)
Political Science, Public Administration, International Relations (751-755)
Other Social Sciences (708, 727-745, 770-799)

Social Sciences Total (600-799)

Total Sciences (000-799)

History (804-807)
English & American Language & Literature (811-812)
Foreign Languages & Literature (821-829)
Other Humanities (802, 808-809, 830-879)

Humanities Total (802-879)

Professional Fields (881-897)

Education (900-999)

Total Non-Sciences (802-897, 900-999)

Other or Unspecified (899)

TITLES OF DEGREES INCLUDED IN THE SURVEY OF EARNED DOCTORATES

DAS	Doctor of Applied Science
DArch	Doctor of Architecture
DA	Doctor of Arts
DBA	Doctor of Business Administration
JCD	Doctor of Canon Law
DCJ	Doctor of Criminal Justice
DCrim	Doctor of Criminology
EdD	Doctor of Education
DEng	Doctor of Engineering
DESc	Doctor of Engineering Science
ScDE	Doctor of Engineering Science
DEnv	Doctor of Environment
DED	Doctor of Environmental Design
DFA	Doctor of Fine Arts
DF	Doctor of Forestry
DGS	Doctor of Geological Science
DHS	Doctor of Health and Safety
DHL	Doctor of Hebrew Literature
DHS	Doctor of Hebrew Studies
SJD	Doctor of Juridical Science
JSD	Doctor of Juristic Science
DLS	Doctor of Library Science
DMin or DM	Doctor of Ministry (except professional)
DM	Doctor of Music
DMA	Doctor of Musical Arts
DME	Doctor of Music Education
DML	Doctor of Modern Languages
DNSc	Doctor of Nursing Science
PhD	Doctor of Philosophy
DPE	Doctor of Physical Education
DPA	Doctor of Public Administration
DPH	Doctor of Public Health
DRec or DR	Doctor of Recreation
DRE	Doctor of Religious Education
DSM	Doctor of Sacred Music
STD	Doctor of Sacred Theology
DSc	Doctor of Science
DScH	Doctor of Science and Hygiene
DScD	Doctor of Science in Dentistry
LScD	Doctor of Science and Law
DScVM	Doctor of Science in Veterinary Medicine
DSSc	Doctor of Social Science
DSW	Doctor of Social Work
ThD	Doctor of Theology